Box Loading Problem

Tom needs to load boxes onto a truck in a specific order using a conveyor belt and an auxiliary stack. The conveyor belt has boxes numbered from 1 to n in increasing order. The delivery order provided by the driver is given as an array. Tom can only load boxes onto the truck in the order they appear on the conveyor belt or from the top of the auxiliary stack (which follows Last In, First Out).

To determine how many boxes Tom can successfully load onto the truck, follow these steps:

- Start with the first box on the conveyor belt.
- If the current box matches the next box in the delivery order, load it onto the truck.
- If it doesn′t match, move the box to the auxiliary stack.
- Repeat this process until all boxes are processed.
- If you can′t load the next required box (because it′s blocked by other boxes in the auxiliary stack), stop.

Input

- An array of integers representing the delivery order.

Output

- An integer representing the number of boxes successfully loaded onto the truck.

Example

The order provided by the delivery driver is that the boxes should be loaded in the sequence: 4, 3, 1, 2, 5. The conveyor belt has boxes in the order: 1, 2, 3, 4, 5.

Tom would first place the first, second, and third boxes onto the auxiliary conveyor belt. After that, he would load the fourth box onto the truck. Then, he would take the third box from the auxiliary conveyor belt to load onto the truck. Next, he needs to load the first box, but he can only access the second box from the auxiliary conveyor belt and the fifth box from the original conveyor belt. This means he can no longer load any more boxes. Therefore, only 2 boxes will be loaded onto the truck.

No.	Sample Input	Sample Output
1	4 3 1 2 5	2
2	5 4 3 2 1	5
3	5 1 4 3 2	1