## 2073. Time Needed to Buy Tickets











Companies

There are [n] people in a line queuing to buy tickets, where the  $[0^{th}]$  person is at the **front** of the line and the  $[(n-1)^{th}]$  person is at the **back** of the line.

You are given a **0-indexed** integer array tickets of length n where the number of tickets that the ith person would like to buy is tickets[i].

Each person takes exactly 1 second to buy a ticket. A person can only buy 1 ticket at a time and has to go back to the end of the line (which happens instantaneously) in order to buy more tickets. If a person does not have any tickets left to buy, the person will leave the

Return the **time taken** for the person at position  $\mathbb{R}$  (**0-indexed**) to finish buying tickets.

## Example 1:

**Input:** tickets = [2,3,2], k = 2

Output: 6 **Explanation:** 

- In the first pass, everyone in the line buys a ticket and the line becomes [1, 2, 1].
- In the second pass, everyone in the line buys a ticket and the line becomes [0, 1, 0].

The person at position 2 has successfully bought 2 tickets and it took 3 + 3 = 6 seconds.

## Example 2:

**Input:** tickets = [5,1,1,1], k = 0

Output: 8 **Explanation:** 

- In the first pass, everyone in the line buys a ticket and the line becomes [4, 0, 0, 0].
- In the next 4 passes, only the person in position 0 is buying tickets.

The person at position 0 has successfully bought 5 tickets and it took 4 + 1 + 1 + 1 + 1 = 8 seconds.

Acceptance Rate 62.4%

## **Constraints:**

- n == tickets.length
- 1 <= n <= 100
- 1 <= tickets[i] <= 100
- 0 <= k < n

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Submissions 68.3K

No

Yes

Accepted 42.6K

Discussion (1)

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