There are n people in a line queuing to buy tickets, where the 0th 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 line.

Return *the****time taken****for the person at position*k***(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.

**Constraints:**

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