2073. Time Needed to Buy Tickets



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 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.

FIFO: HIST IN first out

d, 3, 2 K=2

index: 0 12

Seconds = 0

132 321

seconds = 0+1

-. Ist Prodex is

1

subtracted by or and moved to last

221 212 3 Seconds=2

11

1 1 2 1 2 1 3 Seconds=3

110 = 101 = Seconds 25

0 0 1 \Rightarrow k=2 rndex 2 has become 0. stop the bopand print the output

seconds=6.