











## 5926. Time Needed to Buy Tickets

My Submissions (/contest/weekly-contest-267/problems/time-needed-to-buy-tickets/submissions/)

Back to Contest (/contest/weekly-contest-267/)

ref=nb npl)

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  $(n - 1)^{th}$ 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 i<sup>th</sup> 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.

User Accepted:	8
User Tried:	14
Total Accepted:	8
Total Submissions:	14
Difficulty:	Easy

## 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

```
JavaScript
                                                                                                                  \
 1 v const timeRequiredToBuy = (a, k) ⇒ {
 2
        a = a.map((x, i) \Rightarrow [x, i]);
 3
        let res = 1;
 4 ▼
        while(1) {
 5
             let cur = a.shift();
             // pr(a, "cur", cur);
 6
 7
             if (cur[1] == k \&\& cur[0] == 1) break;
 8
             cur[0]--;
 9
             if (cur[0] > 0) a.push(cur);
10
             res++;
11
12
        return res;
13
    };
```

United States (/region)