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Time Needed To Buy Tickets(Leetcode Week 4)

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 **initially** at position **k**(0-indexed) to finish buying tickets.

int timeRequiredToBuy(int\* tickets, int n, int k) {

    int count=0;

    while(1){

        for(int i=0;i<n;i++){

            if(tickets[i]==0) continue;

            tickets[i]-=1;

            count+=1;

            if(tickets[k]==0) return count;

        }

    }

}

Output:



