

### 100143. Count Tested Devices After Test Operations

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You are given a **0-indexed** integer array `batteryPercentages` having length `n`, denoting the battery percentages of `n` **0-indexed** devices.

Your task is to test each device `i` **in order** from `0` to `n - 1`, by performing the following test operations:

- If `batteryPercentages[i]` is **greater** than `0` :
  - **Increment** the count of tested devices.
  - **Decrease** the battery percentage of all devices with indices `j` in the range `[i + 1, n - 1]` by `1`, ensuring their battery percentage **never goes below** `0`, i.e, `batteryPercentages[j] = max(0, batteryPercentages[j] - 1)`.
  - Move to the next device.
- Otherwise, move to the next device without performing any test.

User Accepted:	0
User Tried:	0
Total Accepted:	0
Total Submissions:	0
Difficulty:	Easy

Return an integer denoting the number of devices that will be tested after performing the test operations in order.

Example 1:

Input: `batteryPercentages = [1,1,2,1,3]`  
Output: `3`  
Explanation: Performing the test operations in order starting from device 0:  
At device 0, `batteryPercentages[0] > 0`, so there is now 1 tested device, and `batteryPercentages` becomes `[1,0,1,0,2]`.  
At device 1, `batteryPercentages[1] == 0`, so we move to the next device without testing.  
At device 2, `batteryPercentages[2] > 0`, so there are now 2 tested devices, and `batteryPercentages` becomes `[1,0,1,0,1]`.  
At device 3, `batteryPercentages[3] == 0`, so we move to the next device without testing.  
At device 4, `batteryPercentages[4] > 0`, so there are now 3 tested devices, and `batteryPercentages` stays the same.  
So, the answer is 3.




Example 2:

Input: `batteryPercentages = [0,1,2]`  
Output: `2`  
Explanation: Performing the test operations in order starting from device 0:  
At device 0, `batteryPercentages[0] == 0`, so we move to the next device without testing.  
At device 1, `batteryPercentages[1] > 0`, so there is now 1 tested device, and `batteryPercentages` becomes `[0,1,1]`.  
At device 2, `batteryPercentages[2] > 0`, so there are now 2 tested devices, and `batteryPercentages` stays the same.  
So, the answer is 2.

Constraints:

- `1 <= n == batteryPercentages.length <= 100`
- `0 <= batteryPercentages[i] <= 100`

JavaScript



```
1 const countTestedDevices = (a) => {
2   let n = a.length, res = 0;
3   for (let i = 0; i < n; i++) {
4     if (a[i] > 0) {
5       res++;
6       for (let j = i + 1; j < n; j++) a[j]--;
7     }
8   }
9   return res;
}
```

```
10  };
```

☐ Custom Testcase

Use Example Testcases

Run

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Submission Result: **Accepted** (/submissions/detail/1116129307/) ⓘ 

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