ref=nb_npl)





5920. Minimized Maximum of Products Distributed to Any Store

My Submissions (/contest/weekly-contest-266/problems/minimized-maximum-of-products-distributed-to-any-store/submissions/)

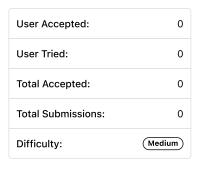
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You are given an integer n indicating there are n specialty retail stores. There are m product types of varying amounts, which are given as a **O-indexed** integer array quantities , where quantities [i] represents the number of products of the ith product type.

You need to distribute all products to the retail stores following these rules:

- A store can only be given at most one product type but can be given any amount of it.
- After distribution, each store will be given some number of products (possibly 0). Let x represent the maximum number of products given to any store. You want x to be as small as possible, i.e., you want to minimize the maximum number of products that are given to any store.

Return the minimum possible x.



Example 1:

```
Input: n = 6, quantities = [11,6]
Output: 3
Explanation: One optimal way is:
- The 11 products of type 0 are distributed to the first four stores in these amounts: 2, 3, 3, 3
- The 6 products of type 1 are distributed to the other two stores in these amounts: 3,\ 3
The maximum number of products given to any store is max(2, 3, 3, 3, 3, 3) = 3.
```

Example 2:

```
Input: n = 7, quantities = [15,10,10]
Explanation: One optimal way is:
- The 15 products of type 0 are distributed to the first three stores in these amounts: 5, 5, 5
- The 10 products of type 1 are distributed to the next two stores in these amounts: 5, 5
- The 10 products of type 2 are distributed to the last two stores in these amounts: 5, 5
The maximum number of products given to any store is max(5, 5, 5, 5, 5, 5, 5) = 5.
```

Example 3:

```
Input: n = 1, quantities = [100000]
Output: 100000
Explanation: The only optimal way is:
- The 100000 products of type 0 are distributed to the only store.
The maximum number of products given to any store is max(100000) = 100000.
```

Constraints:

```
• m == quantities.length
```

• $1 \le m \le n \le 10^5$

 $1 \le \text{quantities}[i] \le 10^5$

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JavaScript
1 • /**
    * @param {number} n
2
    * @param {number[]} quantities
    * @return {number}
5
    */
6 var minimizedMaximum = function(n, quantities) {
```