Discuss(/discuss/)Leedode is hiring! Apply NOW (/subscribe? Store



o (/problems substrings

## 6075. Maximum Bags With Full Capacity of Rocks

My Submissions (/contest/weekly-contest-294/problems/maximum-bags-with-full-capacity-of-rocks/submissions/)

Back to Contest (/contest/weekly-contest-294/)

You have n bags numbered from  $\emptyset$  to n-1. You are given two  $\mathbf{0}$ -indexed integer arrays capacity and rocks . The ith bag can hold a maximum of capacity[i] rocks and currently contains rocks[i] rocks. You are also given an integer additionalRocks, the number of additional rocks you can place in any of the bags.

Return the maximum number of bags that could have full capacity after placing the additional rocks in some bags.

Difficulty:	Medium
Total Submissions:	2682
Total Accepted:	2286
User Tried:	2494
User Accepted:	2282

## Example 1:

```
Input: capacity = [2,3,4,5], rocks = [1,2,4,4], additionalRocks = 2
Output: 3
Explanation:
Place 1 rock in bag 0 and 1 rock in bag 1.
The number of rocks in each bag are now [2,3,4,4].
Bags 0, 1, and 2 have full capacity.
There are 3 bags at full capacity, so we return 3.
It can be shown that it is not possible to have more than 3 bags at full capacity.
Note that there may be other ways of placing the rocks that result in an answer of 3.
```

## Example 2:

```
Input: capacity = [10,2,2], rocks = [2,2,0], additionalRocks = 100
Explanation:
Place 8 rocks in bag 0 and 2 rocks in bag 2.
The number of rocks in each bag are now [10,2,2].
Bags 0, 1, and 2 have full capacity.
There are 3 bags at full capacity, so we return 3.
It can be shown that it is not possible to have more than 3 bags at full capacity.
Note that we did not use all of the additional rocks.
```

## Constraints:

```
• n == capacity.length == rocks.length
• 1 \le n \le 5 * 10^4
• 1 <= capacity[i] <= 10<sup>9</sup>
• 0 <= rocks[i] <= capacity[i]
• 1 <= additionalRocks <= 109
```

```
JavaScript
                                                                                                                               क
                                                                                                                                     \mathbf{c}
                                                                                                                                            ٥
1 v const maximumBags = (capacity, rocks, k) ⇒ {
2
        let n = rocks.length, d = [], res = 0;
3
         for (let i = 0; i < n; i++) d.push([rocks[i], capacity[i], capacity[i] - rocks[i]]);</pre>
 4
         d.sort((x, y) \Rightarrow x[2] - y[2]);
5 ▼
```

```
for (const [x, y, need] of d) {
             if (need == 0) {
 6 •
 7
                  res++;
 8 ▼
             } else {
 9 ▼
                  if (k \ge need) {
10
                      k -= need;
11
                      res++;
12 •
                  } else {
13
                      break:
14
15
             }
16
17
         return res;
18
    };
```

Help Center (/support) | Jobs (/jobs) | Bug Bounty (/bugbounty) | Online Interview (/interview/) | Students (/student) | Terms (/terms) | Privacy Policy (/privacy)

United States (/region)