

6006. Removing Minimum Number of Magic Beans

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You are given an array of **positive** integers `beans`, where each integer represents the number of magic beans found in a particular magic bag.

Remove any number of beans (**possibly none**) from each bag such that the number of beans in each remaining **non-empty** bag (still containing **at least one** bean) is **equal**. Once a bean has been removed from a bag, you are **not** allowed to return it to any of the bags.

Return *the **minimum** number of magic beans that you have to remove*.

User Accepted:	2819
User Tried:	4298
Total Accepted:	2881
Total Submissions:	8624
Difficulty:	Medium

Example 1:

Input: `beans = [4,1,6,5]`

Output: `4`

Explanation:

- We remove 1 bean from the bag with only 1 bean. This results in the remaining bags: `[4,0,6,5]`
- Then we remove 2 beans from the bag with 6 beans. This results in the remaining bags: `[4,0,4,5]`
- Then we remove 1 bean from the bag with 5 beans. This results in the remaining bags: `[4,0,4,4]`

We removed a total of $1 + 2 + 1 = 4$ beans to make the remaining non-empty bags have an equal number of beans. There are no other solutions that remove 4 beans or fewer.

Example 2:

Input: `beans = [2,10,3,2]`

Output: `7`

Explanation:

- We remove 2 beans from one of the bags with 2 beans. This results in the remaining bags: `[0,10,3,2]`
- Then we remove 2 beans from the other bag with 2 beans. This results in the remaining bags: `[0,10,3,0]`
- Then we remove 3 beans from the bag with 3 beans. This results in the remaining bags: `[0,10,0,0]`

We removed a total of $2 + 2 + 3 = 7$ beans to make the remaining non-empty bags have an equal number of beans. There are no other solutions that removes 7 beans or fewer.

Constraints:

- $1 \leq \text{beans.length} \leq 10^5$
- $1 \leq \text{beans}[i] \leq 10^5$

Java

```
1 class Solution {
2     public long minimumRemoval(int[] beans) {
3
4     }
5 }
```

☐ Custom Testcase

Use Example Testcases

Run

Submit