# 2171. Removing Minimum Number of Magic Beans

## Description

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.

#### **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 <= beans.length <= 10 <sup>5</sup>
- 1 <= beans[i] <= 10 <sup>5</sup>