

Description

Editorial

Solutions (9.8K)

Submissions

268. Missing Number

Easy

9.8K

3.2K



Companies

Given an array `nums` containing `n` distinct numbers in the range `[0, n]`, return *the only number in the range that is missing from the array*.

Example 1:

Input: `nums = [3,0,1]`**Output:** `2`**Explanation:** `n = 3` since there are 3 numbers, so all numbers are in the range `[0,3]`. 2 is the missing number in the range since it does not appear in `nums`.

Example 2:

Input: `nums = [0,1]`**Output:** `2`**Explanation:** `n = 2` since there are 2 numbers, so all numbers are in the range `[0,2]`. 2 is the missing number in the range since it does not appear in `nums`.

Example 3:

Input: `nums = [9,6,4,2,3,5,7,0,1]`**Output:** `8`**Explanation:** `n = 9` since there are 9 numbers, so all numbers are in the range `[0,9]`. 8 is the missing number in the range since it does not appear in `nums`.

i Java

Auto

```
1 class Solution {
2     public int missingNumber(int[] nums) {
3         int sum_range = 0;
4         int sum_org = 0;
5         for(int i =0;i<=nums.length;i++){
6             sum_range += i;
7         }
8         for(int j =0;j<nums.length;j++){
9             sum_org += nums[j];
10        }
11        return sum_range - sum_org;
12    }
13 }
14 }
```

Testcase

Result

Accepted

Runtime: 0 ms

• Case 1

• Case 2

• Case 3

Input

nums =

`[3,0,1]`

Output

`2`

Expected

Console



Run

Submit

2305. Fair Distribution of Cookies

Hint

Medium

1.7K

73



Companies

You are given an integer array `cookies`, where `cookies[i]` denotes the number of cookies in the i^{th} bag. You are also given an integer `k` that denotes the number of children to distribute all the bags of cookies to. All the cookies in the same bag must go to the same child and cannot be split up.

The **unfairness** of a distribution is defined as the **maximum total** cookies obtained by a single child in the distribution.

Return the **minimum** unfairness of all distributions.

Example 1:

Input: `cookies = [8,15,10,20,8]`, `k = 2`

Output: 31

Explanation: One optimal distribution is `[8,15,8]` and `[10,20]`

– The 1st child receives `[8,15,8]` which has a total of $8 + 15 + 8 = 31$ cookies.

– The 2nd child receives `[10,20]` which has a total of $10 + 20 = 30$ cookies.

The unfairness of the distribution is $\max(31, 30) = 31$.

It can be shown that there is no distribution with an unfairness less than 31.

Example 2:

Input: `cookies = [6,1,3,2,2,4,1,2]`, `k = 3`

Output: 7

Explanation: One optimal distribution is `[6,1]`, `[3,2,2]`, and `[4,1,2]`

– The 1st child receives `[6,1]` which has a total of $6 + 1 = 7$

i Java Auto

```
1 class Solution {
2     int ans = Integer.MAX_VALUE;
3
4     void helper(int[] cookies, int start, int k, int[] temp) {
5         if (start == cookies.length) {
6             int max = 0;
7             for (int c : temp)
8                 max = Math.max(max, c);
9             ans = Math.min(ans, max);
10            return;
11        }
12        for (int i = 0; i < k; i++) {
13            temp[i] += cookies[start];
14            helper(cookies, start + 1, k, temp);
15            temp[i] -= cookies[start];
16        }
17    }
18
19    public int distributeCookies(int[] cookies, int k) {
20        helper(cookies, 0, k, new int[k]);
21    }
22 }
```

Testcase Result

Accepted

Runtime: 0 ms

• Case 1

• Case 2

Input

cookies =

[8,15,10,20,8]

k =

2

Output

...

Console



Run

Submit