

Description

Solution

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Submissions

### 643. Maximum Average Subarray I

Easy 806 123 Add to List Share

Given an array consisting of `n` integers, find the contiguous subarray of given length `k` that has the maximum average value. And you need to output the maximum average value.

**Example 1:**

**Input:** [1,12,-5,-6,50,3], k = 4

**Output:** 12.75

**Explanation:** Maximum average is (12-5-6+50)/4 = 51/4 = 12.75

**Note:**

- 1 <= `k` <= `n` <= 30,000.
- Elements of the given array will be in the range [-10,000, 10,000].

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Seen this question in a real interview before? 

Yes

No

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```
1 class Solution {
2     public double findMaxAverage(int[] nums, int k) {
3         long sum = 0;
4         for (int i = 0; i < k; i++)
5             sum += nums[i];
6         long max = sum;
7
8         for (int i = k; i < nums.length; i++) {
9             sum += nums[i] - nums[i - k];
10            max = Math.max(max, sum);
11        }
12
13        return max / 1.0 / k;
14    }
15 }
```

Testcase

Run Code Result

Debugger

Accepted

Runtime: 0 ms

Your input

[1,12,-5,-6,50,3]  
4

Output

12.75000

Diff

Expected

12.75000

Problems

Pick One

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Console

How to create a testcase

Run Code

Submit