BACK

absoluteValuesSumMinimization.





SOLUTIONS 9162

COMMENTS 83

>

CODEWRITING

SCORE: 300/300

Given a sorted array of integers a, find an integer x from a such that the value of

```
abs(a[0] - x) + abs(a[1] - x) + ... + abs(a[a.length - 1] - x)
```

is the *smallest possible* (here abs denotes the absolute value). If there are several possible answers, output the *smallest* one.

Example

```
For a = [2, 4, 7], the output should be absoluteValuesSumMinimization(a) = 4.
```

Input/Output

- [execution time limit] 4 seconds (js)
- [input] array.integer a

A non-empty array of integers, sorted in ascending order.

Guaranteed constraints:

```
1 \le \text{a.length} \le 200,
-10^6 \le \text{a[i]} \le 10^6.
```

• [output] integer

[JavaScript (ES6)] Syntax Tips

```
// Prints help message to the console
// Returns a string
function helloWorld(name) {
    console.log("This prints to the console when you Run Tests");
    return "Hello, " + name;
}
```



