BACK

Challenge **pokerChips**

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DESCRIPTION MY SOLUTIONS LEADERBOARD COMMENTS README

CODEWRITING

Bart set up a circular poker table for his friends so that each of the seats at the table has the same number of poker chips. But when Bart wasn't looking, someone rearranged all of the chips so that they are no longer evenly distributed! Now Bart needs to redistribute the chips so that every seat has the same number before his friends arrive. But Bart is very meticulous: to ensure that he doesn't lose any chips in the process, he only moves chips between adjacent seats. Moreover, he only moves chips one at a time. What is the minimum number of chip moves Bart will need to make to bring the chips back to equilibrium?

Example

For `chips = [1, 5, 9, 10, 5]`, the output should be

`pokerChips(chips) = 12`.

The array represents a circular table, so we are permitted to move chips between the last and the first index in the array. Thus Bart can bring the chips back to equilibrium with the following steps (`1`-indexed):

- move `2` chips from seat `2` to seat `1` (`2` moves);
- move `3` chips from seat `3` to seat `2` (`3` moves);
- move `3` chips from seat `5` to seat `1` (`3` moves);
- move `4` chips from seat `4` to seat `5` (`4` moves).

After this sequence of `12` moves, each seat will have `6` chips, and there is no sequence of fewer moves doing the same.

Input/Output

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

  The chip counts of each seat.

  Guaranteed constraints:

  `0 ≤ chips.length ≤ 10^6`,

  `0 ≤ chips[i] ≤ 100`.

- **[output] integer**

  The minimum number of moves required to restore the chip counts.

[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;
}
```