Telerik Academy Alpha 2017-2018 - JS Entry Exam

Task 3 - Destiny pillars

Now that you have successfully built the steps made out of brick triangles, you need to build some pillars as well. Pillars that will reveal your destiny!

The pillars are a sequence of **N-amount of integers** that represent each pillar's height, that can be either **positive or negative**. That sequence will be given to you in the input. You need to use it in order to calculate the space between each of the pillars.

For example, you are given the sequence **1 6 8 10 3 1 1**. In order to calculate the distance between each of the pillars, you need to find the absolute difference between their heights.

Absolute difference between two integer numbers A and B is the difference of the larger between A and B minus the smaller between A and B. Examples:

- Absolute difference between 5 and 1 is 4 (5 – 1 = 4).
- Absolute difference between -2 and 2 is 4 (-2 – 2 = 4).

Knowing that, our example becomes: $\mathbf{1^5 6^2 8^2 10^7 3^2 1^0 1}$. Now, that seems a bit too complicated, no? Lets make it easier. Instead of finding each distance between the pillars, we will do some hopping around. Let me give you a hint so it's even easier. Start from the second pillar's height. Then find the distance between the current pillar and the previous pillar.

- If the distance is an odd number, move one positions to the right.
- If the distance is an even number, move two positions to the right.

Knowing that, our example becomes: $\mathbf{1^5 6^2 8^{skipped} 10^7 3^2 1^{skipped} 1}$, which results in $\mathbf{1^5 6^2 8^0 10^7 3^2 1^0 1}$. Now, to make things even more simple, we need to find the sum of the **even** distances between the pillars. In this example, the only even ones are between the pillars with height **6 and 8** and the pillars with height **3 and 1**. That means that we need to sum **2 + 2**. Therefore, we **output 4** on the console.

Input

- Input will consist of an array with **single element**.
- This element contains the **sequence of numbers** as a string, separated by a single space (' ').
- *The input will always be valid and in the described format. There is no need to validate it explicitly.*

Output

- On the only output line write the sum of all even distances between pillars, found during the execution of your program.

Constraints

- There will be between 2 and 200 numbers in the input, inclusive.
- Each number will be between -2 000 000 000 and +2 000 000 000.

Submit in BGCoder.com

- You should submit a function wrapping your solution

```
function solve(args){
  // args is the input in the form of an array provided by BGCoder
  // your code goes here
}
```

Examples

Input	Output
1 6 8 10 3 1 1	4

Input	Output
-5 5 1 8 -4 1 2	22