Several people are standing in a row and need to be divided into two teams. The first person goes into *team 1*, the second goes into *team 2*, the third goes into *team 1* again, the fourth into *team 2*, and so on.

You are given an array of positive integers - the weights of the people. Return an array of two integers, where the first element is the total weight of *team 1*, and the second element is the total weight of *team 2* after the division is complete.

## Example

```
For a = [50, 60, 60, 45, 70], the output should be alternatingSums(a) = [180, 105].

Input/Output
```

- [execution time limit] 0.5 seconds (cpp)
- [input] array.integer a

```
Guaranteed constraints:

1 \le a.length \le 10^5,

45 \le a[i] \le 100.
```

• [output] array.integer