

[< All Problems \(JavaScript:void\(0\)\)](#)

## Split the Array

Accuracy: 53.18% Submissions: 692 Points: 20

You are given an array **A** of length **N**. You can split the array into non-empty consecutive subarrays. Different subarrays can have different lengths, and every element in the array should be included in exactly one subarray. If the **i<sup>th</sup>** element of the array is at the **j<sup>th</sup>** position in the **k<sup>th</sup>** subarray, then it adds the following **beauty** to the array:

- $(-1)^{(j+k)\%2} * A_i$

Find the **maximum** beauty obtainable by optimally partitioning the array.

### Input Format:

The first line of the input contains a single integer **T** denoting the number of test cases. The description of **T** test cases is as follows:

- The first line of each test case contains an integer **N** - the array's length.
- The second line of each test case contains **N** space-separated integers - **A<sub>1</sub>, A<sub>2</sub>, ..., A<sub>N</sub>**.

### Output Format:

For each test case, print the **maximum** beauty obtainable by optimally partitioning the array followed by a newline character.

**Note:** Generated output is white space sensitive, do not add any extra spaces on unnecessary newline characters.

### Constraints:

$$1 \leq T \leq 2500$$

$$1 \leq N \leq 10000$$

$$0 \leq |A_i| \leq 10^9$$

The sum of **N** over all test cases does not exceed 500000.

### Example: