## Problem H. Hard Problem

Input file: standard input
Output file: standard output
Time limit: 2 seconds
Memory limit: 1024 megabytes
You are given a sequence of nonnegative integers $a_{1}, a_{2}, \ldots, a_{n}$. You can perform the following three types of operations any number of times.

- Choose an interval $[l, r]$, decrease all numbers in the interval by 1.
- Choose an interval $[l, r]$, decrease all numbers with odd indices in the interval by 1.
- Choose an interval $[l, r]$, decrease all numbers with even indices in the interval by 1.

Output the minimum number of operations to make all numbers equal to 0 .

## Input

In the first line, $T(1 \leq T \leq 10)$ - the number of test cases.
For each test case:

- In the first line, $n\left(1 \leq n \leq 10^{5}\right)$.
- In the second line, $a_{1}, a_{2}, \ldots, a_{n}\left(0 \leq a_{i} \leq 10^{9}\right)$.


## Output

For each test case, one integer - the answer.

## Example

| standard input | standard output |
| :---: | :---: |
| ```3 5 21212 8 1000000000 1000000000 0 1000000000 \ 1000000000 0 1000000000 1000000000 (There won't be extra line breakers \ in the actual test cases.) 13 114451419198810``` | $\begin{aligned} & 2 \\ & 3000000000 \\ & 19 \end{aligned}$ |

