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The Virtual Learning Environment for Computer Programming

## Curious subsequences

Quinzè Concurs de Programació de la UPC - Final (2017-09-13)
In this problem, we will say that a (sub)sequence of integer numbers is curious if it does not have two consecutive numbers whose sum is even. Given a sequence of $n$ integer numbers, what is the maximum sum of elements of all its curious subsequences?
For instance, for 810101100120 the maximum sum is 231, corresponding to 10101120 .

## Input

Input consists of several cases, each one with $n$ followed by $n$ integer numbers between $-10^{9}$ and $10^{9}$. Assume $1 \leq n \leq 10^{7}$.

## Output

Print the maximum possible sum for every case.

## Sample input

$\begin{array}{llllll}5 & 8 & 10 & 101 & 100 & 120\end{array}$
$4 \quad 5 \quad 5 \quad 5 \quad 5$
110
$\begin{array}{lll}2 & -1 & -4\end{array}$
310000000009999999991000000000

## Problem information

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