
Curious subsequences

P92016_en

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 8 10 101 100 120 the maximum sum is 231, corresponding to 10 101 120.

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 1	Sample output 1
5 8 10 101 100 120 4 5 5 5 5 1 10 2 -1 -4 3 1000000000 999999999 1000000000	231 5 10 0 2999999999

Problem information

Author: Salvador Roura

Generation: 2026-01-25T11:56:22.624Z

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