

## B. Odd sum

time limit per test: 1 second

memory limit per test: 256 megabytes

input: standard input

output: standard output

You are given sequence  $a_1, a_2, \dots, a_n$  of integer numbers of length  $n$ . Your task is to find such subsequence that its sum is odd and maximum among all such subsequences. It's guaranteed that given sequence contains subsequence with odd sum.

Subsequence is a sequence that can be derived from another sequence by deleting some elements without changing the order of the remaining elements.

You should write a program which finds sum of the best subsequence.

### Input

The first line contains integer number  $n$  ( $1 \leq n \leq 10^5$ ).

The second line contains  $n$  integer numbers  $a_1, a_2, \dots, a_n$  ( $-10^4 \leq a_i \leq 10^4$ ). The sequence contains at least one subsequence with odd sum.

### Output

Print sum of resulting subsequence.

### Examples

input
4 -2 2 -3 1
output
3

  

input
3 2 -5 -3
output
-1

### Note

In the first example sum of the second and the fourth elements is 3.