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**Curious subsequences****P92016\_en**

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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**

```
5 8 10 101 100 120
4 5 5 5 5
1 10
2 -1 -4
3 1000000000 999999999 1000000000
```

**Sample output 1**

```
231
5
10
0
2999999999
```

**Problem information**

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