



HOME CONTESTS GYM PROBLEMSET GROUPS RATING API CANADA CUP 🖫 SECTIONS

PROBLEMS SUBMIT STATUS STANDINGS CUSTOM TEST

A. Wet Shark and Odd and Even

time limit per test: 2 seconds memory limit per test: 256 megabytes input: standard input output: standard output

Today, Wet Shark is given n integers. Using any of these integers no more than once, Wet Shark wants to get maximum possible even (divisible by 2) sum. Please, calculate this value for Wet Shark.

Note, that if Wet Shark uses no integers from the n integers, the sum is an even integer 0.

Input

The first line of the input contains one integer, $n (1 \le n \le 100\ 000)$. The next line contains n space separated integers given to Wet Shark. Each of these integers is in range from 1 to 10^9 , inclusive.

Output

Print the maximum possible even sum that can be obtained if we use some of the given integers.

Examples

input		
3 123		
output		
6		

6	
input	
5 99999999 99999999 99999999 999999999	
output	
399999996	

Note

In the first sample, we can simply take all three integers for a total sum of 6.

In the second sample Wet Shark should take any four out of five integers 999 999.

Codeforces Round #341 (Div. 2)

Finished

→ Virtual participation

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Start virtual contest



→ Contest materials

Tutorial

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Desktop version, switch to mobile version.