



Princeton Computer Science Contest 2021

Problem 0: This is Why you Went to Princeton [HackerRank]

By Sacheth Sathyanarayanan

Being a true Princetonian, you decide to “make the world a better place” at Goldman Sachs. On your first day at the job, your manager — a Yale alumnus — asks you to solve a problem they’ve been thinking about for a few weeks now: how to calculate the sum of all the even elements in an array.

Input

The first line contains a positive integer n . The next line contains n space-separated integers that make up the array a .

Output

The output should consist of one integer: the sum of all the even integers among the n integers in the array a .

Example

Input:

```
10
4 -3 0 0 1 142 12 191 13 -200
```

Output:

```
-42
```

Explanation: The sum of all the even numbers is $4 + 0 + 0 + 142 + 12 - 200 = -42$.

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