## A. Boredom

time limit per test
1 second
memory limit per test
256 megabytes
input
standard input
output
standard output

Alex doesn't like boredom. That's why whenever he gets bored, he comes up with games. One long winter evening he came up with a game and decided to play it.

Given a sequence a consisting of n integers. The player can make several steps. In a single step he can choose an element of the sequence (let's denote it ak) and delete it, at that all elements equal to ak + 1 and ak - 1 also must be deleted from the sequence. That step brings ak points to the player.

Alex is a perfectionist, so he decided to get as many points as possible. Help him.

### Input

The first line contains integer n ( $1 \le n \le 105$ ) that shows how many numbers are in Alex's sequence.

The second line contains n integers  $a_1, a_2, ..., a_n$  ( $1 \le a_i \le 105$ ).

## **Output**

Print a single integer — the maximum number of points that Alex can earn.

# Examples input

Сору

2 1 2

## output

Copy

2

#### input

Copy

3

1 2 3

## output

Copy

4

## input

Сору

9

121322223

# output



10

# Note

Consider the third test example. At first step we need to choose any element equal to 2. After that step our sequence looks like this [2, 2, 2, 2]. Then we do 4 steps, on each step we choose any element equals to 2. In total we earn 10 points.