

Max-Sum-Subarray

You are given an array A of N integers.
You need to find the contiguous subarray of the maximum sum in A . The subarray should not contain the number 0 . Please find the maximum sum that is possible.

- Note 1:** The subarray can also be empty.
Note 2: The answer will fit in 32 bit-signed integer.

Input Format

The first line contains the integer N . The next line contains N integers representing the numbers in the array.

Constraints

$$1 \leq N \leq 10^5$$
$$-10^6 \leq A_i \leq 10^6$$

Output Format

Output a single line representing the maximum sum that can be obtained.

Sample Input

```
5
3 4 0 1 2
```

Sample Output

```
7
```

Explanation

The subarray with the maximum sum that *doesn't* contain a 0 is $3, 4$.
Hence, the sum is 7 .