Problem Statement **Suggest Edit**

You are given an array (ARR) of length N, consisting of integers. You have to find the sum of the subarray (including empty subarray) having maximum sum among all subarrays.

A subarray is a contiguous segment of an array. In other words, a subarray can be formed by removing 0 or more integers from the beginning, and 0 or more integers from the end of an array.

Note:

```
The sum of an empty subarray is 0.
```

Input Format:

```
The first line of input contains an integer N, representing the length of the
array.

The second line of input contains N single space-separated integers, denoting
the elements of the array.
```

Output Format:

```
In the only output line, output the maximum subarray sum.
```

Constraints:

```
1 <= N <= 10^6
-10^6 <= A[i] <= 10^6

where N is the length of the array.
A[i] represents the numbers present in the array.

Time limit: 1sec
```

Sample Input 1:

```
9
1 2 7 -4 3 2 -10 9 1
```