


Assignment Case	
CH1Special	
Periode Berlaku Semester Ganjil 2021/2022 Valid on Odd Semester Year 2021/2022	Software Laboratory Center Assistant Recruitment 22-1

Soal

Case

Array with Maximum Score

You are given an array, you need to find a subarray that has unique numbers that have the maximum score when summarized. An array is called subarray of an array when it forms a contiguous subsequence of that array (an array with variable name “arr” has a subarray from $a[l]$, $a[l+1]$, ... $a[r]$ where l is not 0 and r is not $\text{sizeof}(\text{arr})$).

Input

The program will ask for an integer **n**, and then followed by **n-integers array**.

Constraint

$$1 \leq n \leq 100000$$

$$1 \leq \text{array}[i] \leq 10000$$

Output

Print the **maximum score** you can get from a **subarray**.

Example (Print out one '\n' at the end of the results)

Input	Output
5 4 2 4 5 6	17
9 5 2 1 2 5 2 1 2 5	8

Explanation

The first test case, the optimal solution is [2, 4, 5, 6].

Because 4 on the first index cannot be in the same subarray with the 4 on the third index.

The second test case, the optimal solution are [5, 2, 1] or [1, 2, 5].