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| **Assignment Case** | Description: LogoBINUS-University |
| 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 sizeof(arr)).

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

**Constraint**

1 ≤ n ≤100000

1 ≤ array[i] ≤10000

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

**Example (Print out one ‘\n’ at the end of the results)**

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| --- | --- |
| **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].