Poltu and Subsequence

Little Poltu loves to play with sequence. And his best friend Boltu loves maximum sum.

Poltu is gifted a sequence of n integers $a_1, a_2, a_3, \ldots, a_n$ in his birthday. Boltu promised that if Poltu can find a non-empty subsequence of contiguous elements such that the sum of the elements is maximum, then Poltu will be gifted a lot of chocolates, which is his favorite.

But the problem is Poltu has no idea how to do that. So he deals with you that if you can help him out, he will give you some of the chocolates. So can you help?

Input
Input starts with an integer T $(1 \leq T \leq 100)$ – the number of test cases.
First line of each case contains an integer n $(1 \leq n \leq 10000)$ – the size of the sequence.
The second line contains n space separated integers $a_1, a_2, \ldots, a_n$ $(-10^9 \leq a_i \leq 10^9)$.

Output
For each case, print an integer k – the maximum sum of non-empty subsequence of contiguous elements.

Sample Input	Sample Output
2 5 1 3 -5 2 4 5 1 3 -3 2 4	6 7

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