

#### **Problems**

Given an array **arr** of **N** integers. Find the contiguous sub-array with maximum sum.

## Input:

The first line of input contains an integer T denoting the number of test cases. The description of T test cases follows. The first line of each test case contains a single integer N denoting the size of array. The second line contains N space-separated integers  $A_1$ ,  $A_2$ , ...,  $A_N$  denoting the elements of the array.

# **Output:**

Print the maximum sum of the contiguous sub-array in a separate line for each test case.

#### Constraints:

$$1 \le T \le 110$$
  
 $1 \le N \le 10^6$   
 $-10^7 \le A[i] <= 10^7$ 

## Example:

#### Input

2 5

123-25

4

-1 -2 -3 -4

#### Output

9

-1

# **Explanation:**

**Testcase 1:** Max subarray sum is 9 of elements (1, 2, 3, -2, 5) which is a contiguous subarray.

\*\* For More Input/Output Examples Use 'Expected Output' option \*\*

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