Maximum Subarray

Description

The maximum subarray problem is a famous problem in Computer Science. The objective of the maximum subarray problem is to find the subarray (a continued part of ***X***) of an array ***X*** of size ***N*** that has the maximum sum of the elements.

Given an array ***X*** of size ***N***, find the sum of the elements of the maximum subarray.

Input

Your program is to read from standard input. The input consists of ***T*** test cases. The number of test cases ***T*** is given in the first line of input. For each test case, the size ***N*** of the array is given on the first line ($1 \leq N \leq 1000$), and the ***N*** elements ***p*** are given on the second line ($-1000 < p < 1000$), each separated by a space.

Output

Your program is to write to standard output. For each test case, you should print the sum of the elements of the maximum subarray on a single line.

Sample

Input	Output
2 5 1 2 3 4 5 5 2 1 -2 3 -5	15 4