Problem H. Maximum Subarray

Time Limit 1 seconds

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