Maximum subarray

Problem Description

Given an array A[1..n] of n integers, find a consecutive sub-array, including empty sub-array, with maximized sum. n<=60000.

Input Format

The first line has an integer which indicates the number of test cases. The first line of each test case is an integer n, $1 < n \leq 60000$, which is the number of integers in the array. The next line contains n integers in the array, which are A[1], A[2], …, A[n]. Each A[i] is between -1000 and 1000.

Output Format

For each case, output the maximal sum of any consecutive subarray, including empty subarray, in one line.

Example

Sample Input:	Sample Output:
2 3 -3 -5 -1 10 -5 3 -2 4 -1 -3 7 -3 -2 4	0 8