## NEO

Given array with n integer elements. We divide it into several part (may be 1 ), each part is a consecutive of elements. The NEO value in that case is computed by: Sum of value of each part. Value of a part is sum all elements in this part multiple by its length.

Example: We have array: [ 23 -2 1 ]. If we divide it look likes: [2 3] [-2 1]. Then NEO = (2 + 3) * 2 $+(-2+1) * 2=10-2=8$.

Because there are many ways to divide an array into several part, so we can get many of NEO value. Your task is find the NEO with maximum value.

## Input

First line: T (number of test case, $\mathrm{T}<=10$ )
For each of testcase:

+ First line: n ( $1<=\mathrm{n}<=10^{\wedge} 5$ )
+ Second line: $a[1], a[2], \ldots, a[n]\left(-10^{\wedge} 6<=a[i]<=10^{\wedge} 6\right)$


## Output

Each testcase print the

## Example

Input:
1

4
12-41

## Output:

3

