## Find steepest peak

A point is peak, if  $a_{i-1} < a_i > a_{i+1}$  and we check the steepness of peak by formula max( $|a_{i-1} - a_i|$ ,  $|a_i - a_{i+1}|$ ). You have to find a peak which is steepest.

i.e. max(max(  $|a_{i-1} - a_i|$ ,  $|a_i - a_{i+1}|$ ), for all 1 from 1 to n-1)

## Input:

The first line contains one positive integer, indicating the N Length of array and . After the first line, the list of elements of the array is given separated by "," without any space.

First and last element of the array will always be 0.

## **Output:**

Single integer from 0 to N representing index of peak. -1 if there is no peak.

Sample Input	Sample Output
7	3
0,1,2,3,2,1,0	
7	4
0,1,7,3,8,1,0	
8 0,12,17,13,7,8,1,0	5