

## Shoot the Targets

You are at a carnival with a date and you're trying to impress them. You notice a shooting range and you know what you have to do, you're going to win them the enormous stuffed panda bear! To win the panda bear you need to **maximize** your points in a single game.

Beside the shooting range there's a sign with a short description:

- There are  $0 \leq n \leq 500$  targets.
- The targets are worth between 0 and 100 points, inclusive.
- If you hit a target you get points for the target itself, multiplied by its adjacent targets.  
*Example:  $[3, 1, 2] \Rightarrow \text{Hit \#1} \Rightarrow 3 \cdot 1 \cdot 2 = 6 \text{ points}$*
- After the points are calculated, the targets are all pushed back together.  
*Example:  $[3, 1, 2] \Rightarrow \text{Hit \#1} \Rightarrow [3, 2]$*
- You can assume that targets out of bounds don't affect the score (worth 1 point).  
*Example:  $[3, 2] \Rightarrow \text{Hit \#3} \Rightarrow 1 \cdot 3 \cdot 2 = 6 \text{ points}$*

### Input

There will be several test cases of input, keep reading integer arrays until end of input (null).

### Output

For every array, print out the maximum achievable points.

### Sample Input

[3, 1, 5, 8]

[1]

[0, 1, 0]

### Sample Output

167

1

1