

- Given an array of integers, you will choose two indices  $i$  and  $j$
- Return the maximum value of

$$(nums[i]-1)*(nums[j]-1)$$

or Select an  $i$  and  $j$  such that above equation is maximized

Ex.

Input: [3,4,5,2]

Output: 12

Reason:  $i=1, j=2 \quad (3)*(4) = 12$

Idea

- 1.) Sort array in non-increasing order (Assuming size  $> 2$ )
- 2.) Pick  $i=0, j=1$

This creates  $O(n \log n)$  time complexity

Second idea:

- 1.) Find maximum value
- 2.) Find second maximum value
- 3.) Compute w/ given equation