## Time complexity:

We have 3 main functions in our code

### Max index:

Time complexity of O(1) since there are no loops

### Reverse:

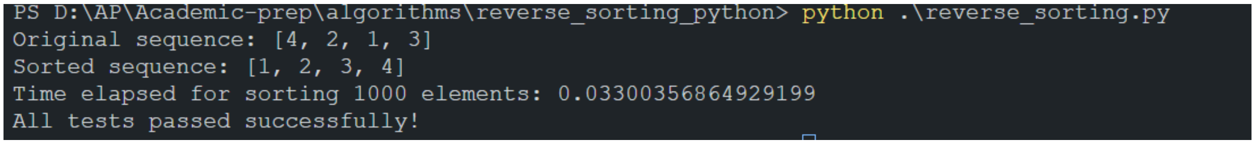
Time complexity of O(i) as there is a loop but the only thing that matters is the index of the list

### Reverse Sort:

Time complexity is O(n^2) as there is a nested loop

Time complexity is = O(1) + O(i) + O(n^2)
We take the biggest of the above so the time complexity of the reverse sorting algorithm is O(n^2)

## Output code:



```
PS D:\AP\Academic-prep\algorithms\reverse_sorting_python> python .\reverse_sorting.py
Original sequence: [4, 2, 1, 3]
Sorted sequence: [1, 2, 3, 4]
Time elapsed for sorting 1000 elements: 0.03300356864929199
All tests passed successfully!
```