

Our Solution(s)

Run Code

Solution 1

```
1 # Copyright © 2020 AlgoExpert, LLC. All rights reserved.
2
3 # O(n) time | O(1) space
4 def findThreeLargestNumbers(array):
5     threeLargest = [None, None, None]
6     for num in array:
7         updateLargest(threeLargest, num)
8     return threeLargest
9
10
11 def updateLargest(threeLargest, num):
12     if threeLargest[2] is None or num > threeLargest[2]:
13         shiftAndUpdate(threeLargest, num, 2)
14     elif threeLargest[1] is None or num > threeLargest[1]:
15         shiftAndUpdate(threeLargest, num, 1)
16     elif threeLargest[0] is None or num > threeLargest[0]:
17         shiftAndUpdate(threeLargest, num, 0)
18
19
```

Our Tests

```
1 def test_findThreeLargestNumbers():
2     # Test 1
3
4     # Test 2
5
6     # Test 3
7
8     # Test 4
9
10    # Test 5
11
12    # Test 6
13
14    # Test 7
15
16    # Test 8
17
18    # Test 9
19
20    # Test 10
```

Your Solutions

Run Code

Solution 1 Solution 2 Solution 3

```
1 def findThreeLargestNumbers(array):
2     # Write your code here.
3     pass
4
```

Custom Output Raw Output

Submit Code

Run or submit code when you're ready.