

shifting the numbers to left if the number is smaller than current 3 numbers in array.

n is the length of array $O(n)$ -

space is $O(1)$ - no additional memory just the three in the array

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def findthreelargestNumbers(array):
    threelargest = [None, None, None]
    for num in array:
        updatelargest(threelargest, num)
    return threelargest

def updatelargest(threelargest, num):
    if threelargest[2] is None or num > threelargest[2]:
        shiftAndUpdate(threelargest, num, 2)
    elif threelargest[1] is None or num > threelargest[1]:
        shiftAndUpdate(threelargest, num, 1)
    elif threelargest[0] is None or num > threelargest[0]:
        shiftAndUpdate(threelargest, num, 0)

def shiftAndUpdate(array, num, idx):
    for i in range(idx + 1):
        if i == idx:
            array[i] = num
        else:
            array[i] = array[i + 1]
```