

Problem 1

1. C
2. C
3. B
4. B
5. B
6. B
7. B
8. B

Problem 2

1. B
2. B
3. C
4. D

Problem 3

1.
 - a. The numbers list has five elements.
 - b. 4 and -1 will both return the last element of the numbers list.
 - c. 30
 - d. len(numbers) returns the number of elements, which is not a valid index.
 - e. 50
 - f. Prints the second & third elements: 20, 30
 - g. The entire list will be printed: [10, 20, 30, 40, 50]
2. nums = [0] * 15
 - a. nums[-1] = 11
 - b. nums[len(nums)-1] = 11
3. ratios = [0.80, 0.75, 0.20, 0.99, 0.00, 1.00]
 - a. for r in ratios:
print(r)
 - b. for i in len(ratios):
print(ratios[i])
4. max(ratios)

Problem 4

i	a	x
<i>begin loop</i>		
0	[2,2,4,1,7]	5
1	[2,4,4,1,7]	5
2	[2,4,1,1,7]	5
3	[2,4,1,7,7]	5
<i>end loop</i>		
3	[2,4,1,7,5]	5

Each element is being shifted up; the first element becomes the last element. The final contents of the list are [2,4,1,7,5].

Problem 5

```
def average_first_and_last(data):
    return (data[0] + data[-1]) / 2
```

Problem 6

```
def list_times_two(data):
    for i in range(len(data)):
        data[i] *= 2
```