

1. What is the output of the following code?

```
def loop01(nums):  
    total = 1  
    for i in range(len(nums)):  
        total = total * nums[i]  
    return total
```

```
print loop01([1, 4, 3])  
print loop01([2, 4, 5])
```

2. Write a function that receives one parameter, a list (nums). The function returns the second to last item in the list. Hint: You will need to use len(nums) to dynamically find the second to last item.

Sample Output:  
lists01([8, 10, 2, 6, 7]) -> 6  
lists01([4, 3, 5]) -> 3

**ANSWER HERE:**

```
def lists01 (      ):
```

3. What are the new values in the nums list?

```
def lists02(nums, v):  
    for i in range(len(nums)):  
        nums[i] = v
```

```
lists02([7, 4, 3], 6)  
lists02([6, 2, 3, 9, 1, 0], 2 )
```

4. Write a function that receives two parameters a list and an integer (nums, index). The function returns nothing. It will store the value 8 at the position indexed by the parameter.

Sample Output:  
lists03([7, 10, 3, 2, 14], 3) -> None  
# new values will be [7, 10, 3, 8, 14]

**ANSWER HERE:**

```
def lists03 (      ):
```