[15-112] Lecture 11

It's my birthday today! I'm old!

Lecture 11 Poll 1 (SOLO)
Which is better?

A.
```python
def doubleValues(L):
    for i in range(len(L)):
        L[i] = L[i] * 2
```

B.
```python
def doubleValues(L):
    A = []
    for item in L:
        A.append(item*2)
```

C.
```python
def doubleValues(L):
    for i in range(len(L)):
        L[i] = L[i] * 2
    return L
```

D.
```python
def doubleValues(L):
    A = []
    for item in L:
        A.append(item*2)
    return A
```

Lecture 11 Poll 1 (GROUP)
Which is better?

A.
```
# mutating
def doubleValues(L):
    for i in range(len(L)):
        L[i] = L[i] * 2
```

B.
```
def doubleValues(L):
    A = []
    for item in L:
        A.append(item*2)
```

C.
```
def doubleValues(L):
    for i in range(len(L)):
        L[i] = L[i] * 2
    return L
```

D.
```
# non mutating
def doubleValues(L):
    A = []
    for item in L:
        A.append(item*2)
    return A
```

Lecture 11 Poll 1
Which is better?

```
A.  # mutating
 def doubleValues(L):
    for i in range(len(L)):
        L[i] = L[i] * 2
```

```
B. # non mutating
def doubleValues(L):
    A = []
    for item in L:
        A.append(item*2)
    return A
```

LIST METHODS (L.)

return value	return None
non mutating	**mutating**
index(v)	append ⎤
count (v)	extend ⎥ add elements
	insert ⎦
	remove ⎤ remove
	[pop] ⎦ elements
	return value
	sort ⎤ sort
	reverse ⎦ elements

Lecture 11 Poll 2 (SOLO)
What is the value of L after the following code?

```
L = [2,4,6,8]
L.remove(4)
L.pop(2)
```

A. [2,4]
B. [6,8]
C. [2,6]
D. [2,8]
E. This will crash
   with an error
F. I don't know

Lecture 11 Poll 2 (GROUP)
What is the value of L after the following code?

```
L = [2,4,6,8]
L.remove(4)
L.pop(2)
```

A. [2,4]
B. [6,8]
C. [2,6]
D. [2,8]
E. This will crash
   with an error
F. I don't know

Lecture 11 Poll 3 (SOLO)
What is the output of the following code?

```python
def ct(L):
    M = L[:-1] + [L.pop(-1)]
    return M


L = [1,2,3,4]
print(ct(L))
```

A. [1,2,3]

B. [1,2,3,3]

C. [1,2,3,4]

D. This will crash
   with an error

E. I don't know

Lecture 11 Poll 3 (GROUP)
What is the output of the following code?

```
def ct(L):
    M = L[:-1] + [L.pop(-1)]
    return M


L = [1,2,3,4]
print(ct(L))
```

A. [1,2,3]
B. [1,2,3,3]
C. [1,2,3,4]
D. This will crash
   with an error
E. I don't know

Lecture 11 Poll 4 (GROUP)
Which is correct?

A.
```
def mutatingRemoveEvens(L):
    i = 0
    while i < len(L):
        if L[i] % 2 == 0:
            L.pop(i)
            i += 1
```

C. Neither
D. Both
E. I don't know

B.
```
def mutatingRemoveEvens(L):
    for i in range(len(L)):
        if L[i] % 2 == 0:
            L.pop(i)
```