

# CS 161 Exercise

## Evaluating Code & Identifying Errors

For each of the following code fragments, evaluate the code and show any output. If there are syntax errors, identify them. If there are logic errors that would prevent the code from working, identify them and show how to correct them. Try solving these problems without using a computer. **Note:** These are only fragments...base your assessment on what you see, not on assumptions about what isn't shown).

- 1)

```
eCount = 0
oCount = 0

for x in range ( 5 ):
    if x % 2 == 0:
        print "E"
        eCount = eCount + 1
    else:
        print "O"
        oCount = oCount + 1
print "E", eCount
print "O", oCount
```
- 2)

```
for x in [ 4,3,2,1 ]
print "x squared is ", x*x
```
- 3) Assume any value for y

```
if y > 60:
    grade = "D"
elif y > 70:
    grade = "C"
elif y > 80:
    grade = "B"
elif y > 90:
    grade = "A"
else:
    grade = "F"
```
- 4)

```
if 18 =< age and age =< 65:
    print "Working age"
```
- 5)

```
if x + 17 / 3 :
    z = z + 1
else:
    z = z - 1
```
- 6) Each time the input statement is executed, use the next value in this list:  
5, 3, 9, 6, 4

```
c = 0
x = input ("enter a value")
while c < 4:
    print "value is ", x
    x = input ("enter a value")
c = c + 1
```
- 7)

```
def main ( ):
    x = x + 1
```
- 8) x = 17

```
print float (x / 2)
```
- 9) for x in range 25

```
print x / 5
```
- 10)

```
while x < 5:
    print "oh no!"
    x + 1 = x
```
- 11)

```
for j in range (4, 10, 2):
    print j,
    print j * j

print "finished"
```