

Name: _____ Net ID: _____ (ex: abc123)

CSCI-UA.0002 – For Loops, Nesting, Some Conditions

1. What sequence of numbers are created by the following ranges (“no sequence” is possible)?

- 1. range(4) _____
- 2. range(2, 4) _____
- 3. range(2, 8, 2) _____
- 4. range(10, 6, -1) _____
- 5. range(10, 6) _____

2. What is the output of the following code (“no output” or “error” are possible)?

```
1. answer = 'a'
   result = answer != 'a' or answer != 'A'
   print(result) _____
```

```
2. answer = 'a'
   result = answer != 'a' and answer != 'A'
   print(result) _____
```

```
3. for i in range(3):
   if i == 1:
       break
   print(i)
```


```
4. for i in range(3):
   if i == 1:
       continue
   print(i)
```


3. What is the output of the code below? Use the grid on the right to show the output.

```
display = ''
outer_end, inner_end = 4, 2
for outer_num in range(outer_end):
    inner_num = 2
    while inner_num <= 4:
        if outer_num == 3:
            display += 'X'
        else:
            display += str(inner_num)
            inner_num += 2
    display += '\n'
print(display)
```


4. Create a while loop that is equivalent to the for loop below.

<pre>for i in range(2, 12, 3): print(i)</pre>	
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