

**Tuesday Sep 17, 2024**

In-class Handout

COSC 101C Intro to Computing I

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Name:

Discuss and complete the following questions with the person nearest you. You **may** be asked to share your thoughts with the class.

1. Using `range`, produce the following outputs.

```
0
2
4
6
8
10
```

```
10
20
30
40
50
```

```
101
102
103
104
```

```
15
12
9
6
```

```
# a
for i in range(0, 12, 2):
    print(i)
print()
```

```
# b
for i in range(101, 105, 1):
    print(i)
print()
```

```
# c
for i in range(15, 3, -3):
    print(i)
print()
```

```
# d
for i in range(10, 60, 10):
    print(i)
print()
```

2. Using the provided functions and a for loop, add to main code that will generate the following output:

```
4 pictures of cats.  
4 pictures of cats on the wall, 4 pictures of cats.  
Take one down and pass it around, 3 pictures of cats on the wall.
```

```
3 pictures of cats.  
3 pictures of cats on the wall, 3 pictures of cats.  
Take one down and pass it around, 2 pictures of cats on the wall.
```

```
2 pictures of cats.  
2 pictures of cats on the wall, 2 pictures of cats.  
Take one down and pass it around, 1 pictures of cats on the wall.
```

```
def lyricX(x: int) -> None:  
    print("Take one down and pass it around, " + str(x) + " pictures of cats on the  
def lyricA(x: int) -> None:  
    print(str(x) + ' pictures of cats.')
```

```
def lyricI(x: int) -> None:  
    print(str(x) + ' pictures of cats on the wall, ' + str(x) + ' pictures of cats.
```

```
def main() -> None:  
    # YOUR CODE HERE
```

```
main()
```

```
def lyricX(x: int) -> None:  
    print("Take one down and pass it around, " + str(x) + " pictures of cats on the  
def lyricA(x: int) -> None:  
    print(str(x) + ' pictures of cats.')
```

```
def lyricI(x: int) -> None:  
    print(str(x) + ' pictures of cats on the wall, ' + str(x) + ' pictures of cats.
```

```
def main() -> None:  
    for i in range(4, 1, -1):  
        lyricA(i)  
        lyricI(i)  
        lyricX(i-1)  
        print()
```

```
main()
```