CSC108H Worksheet: List Operations and Methods, Function range

1. Consider this code:

$$a = [1, 0]$$

All of the following code fragments cause a to refer to [1, 0, 8].

Circle all of the code fragment(s) that create a new list.

```
(a) a.append(8) (b) a = a + [8]
(c) a.insert(len(a), 8) (d) a = [a[0], a[1], 8]
```

Circle all of the code fragment(s) that modify the original list.

- (a) a.append(8) (b) a = a + [8]
- (c) a.insert(len(a), 8) (d) a = [a[0], a[1], 8]

2. Consider this code:

After the code above is executed, which of the following expressions evaluate to True? Circle those expression(s).

(a)
$$a == [1, 0, 8]$$
 (b) $a == [0, 1, 8]$

(c)
$$b == [1, 0, 8]$$
 (d) $b == [0, 1, 8]$

3. Consider this code

After the code above is executed, which of the following expressions evaluate to True? Circle those expression(s).

(a) a ==
$$[0, 1, 2]$$
 and b == $[0, 1, 100]$ (b) a == $[0, 1, 2]$ and b == $[0, 100, 2]$

(c)
$$a == [0, 1, 100]$$
 and $b == [0, 1, 100]$ (d) $id(a) == id(b)$

4. Which of the following code fragments does not print 'na' 12 times? Circle those expression(s).