

```
n = 3
while n > 0:
    if (n == 5):
        n = -99
    print(n)
    n = n + 1
```

What does this code print?

A. 3 4	B. 3 4 5
C. 3 4 -99	D. 3 4 5 -99

Answer: C

With each iteration n will be

3

4

5 (which triggers if statement), then -99

so this code will print

3

4

-99

A valid password is one that is length 5 and starts with "xy". A valid password should terminate the loop. Which of these implements that specification? Note, the input function prints its argument as a prompt and returns whatever the user types as a string (after the user hits enter).

- A. 

```
while True:
    s = input("Enter a password: ")
    if len(s) == 5 and s[:2] == 'xy':
        break
```
- B. 

```
s = input("Enter a password: ")
while len(s) == 5 and s[:2] == 'xy':
    s = input ("Enter a password: ")
```
- C. Both A & B are correct
- D. Neither A or B are correct

Answer: A

A is correct, the loop will continue until s satisfies the specifications. B is incorrect as the loop will continue while s meets the specification, not terminate.

```
a = 0
i = 0
while i < 10:
    a = a + 1
```

Will this loop terminate, be guaranteed to be an infinite loop or will it depend?

- A. Terminate or not execute
- B. Infinite loop
- C. Depends
- D. Syntax error

Answer: B

This is loop will be an infinite loop because the loop body does not change i, which remains < 10, and thus the loop conditional remains True forever.