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

n: 3, 4, -99, -98

print: 3, 4, -99

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. Recall for a loop to terminate, something inside the loop needs to change the loop conditional (or we need a break statement).