

1:

Repeating line of code multiple times

2:

While loop checks if condition is met, if not, it's never ran. Do-while loop does the loop once before then checking if condition is met, if not, it's only ran once.

3:

Review: AccountSetup

4:

A:

Loop that goes on forever

B:

Loop condition is poorly written and if loop has nothing to get itself out of the loop

C:

Value is too high

5:

60 times

6:

None, it will all eventually equal above 120 no matter how low the initial value is (unless code is changed)

7:

Counters changed via a fixed step → ex. $x + 1$. Accumulators is not fixed → ex. $x += y$

Counters usage: counting students or amount of times a loop has ran

Accumulator usage: Summing up random numbers or adding cost of different groceries

8:

```
int x = 0;
for (int i = 3; i <= 10; i++) {
    x += i;
}
```

9:

Does it need to run at least once (do-while), is a range(for) or a condition(while) needed

11:

A:

"my_string."
0 1 2 3 4 5 6 7 8 9

10

B:
"my_string."
0 1 2 3 4 5 6 7 8 9
0 - 3 not including 3

"my "

C:
All to lowercase
"my string."

D:
All to uppercase
"MY STRING."

E:
Trims extra spaces at front and back
"my string."