

QUIZ 05 REVIEW OLD METHOD QUESTION:

- Using a Try Catch, a Scanner Object, and ONE While loop...
- Complete the method `countGreaterThanFive()` below
- This method reads a file full of integer values
- The method returns a count of how many integers in the file are greater than the number five
- The String variable `FilePath` contains the name of the file, which is found in the same folder
- Useful Scanner methods include: `.hasNextInt()`, `.nextInt()`, and `.close()`

The actual quiz will have:

- A method to write involving try-catch, files, and a Scanner object
- A method to write using a while loop
- Code to analyze involving for loops
- 2-4 multiple choice questions

Pseudocode to assist you with this problem:

```
declare any variables you might need
try
{
    create a Scanner Object linked to the file
    while there are still values to read from the file
    {
        read the next value from the file
        if the value is greater than 5, add one to the count
    }
    close the file
}
catch(IOException Error)
{
    System.out.println an appropriate error message
}
return the count of values in the file greater than five
```

```
public int countGreaterThanFive(String FilePath)
```

```
{
    int count = 0;
    int value;
    try {
        File myFile = new File(FilePath);
        Scanner fileReader = new Scanner(myFile);
        while (fileReader.hasNextInt()) {
            value = fileReader.nextInt();
            if (value > 5) {
                count++;
            }
        }
        fileReader.close();
    } catch (IOException Error) {
        System.out.println(Error.getMessage());
    }
    return count;
}
```


MULTIPLE CHOICE QUESTIONS (2pts each): Clearly mark the best answer.

Q01

//Consider this code segment

```
int x = 10, y = 0;
```

```
while(x > 0)
```

```
{
```

```
    y = 3;
```

```
    while(y < x)
```

```
    {
```

```
        y *= 2;
```

```
    }
```

```
    x -= 3;
```

```
}
```

```
System.out.println(x + " " + y);
```

/*

What would be the output after execution of this code segment? (ignore spacing)

(A) 1 6

(B) 7 12

(C) -2 3

(D) 4 12

(E) 3 6

*/

Q02

//Consider this code segment

```
for(int i = 1; i <= 5; i++)
```

```
{
```

```
    for (int j = 1; j <= i; j++)
```

```
    {
```

```
        System.out.print((2 * j - 1) + " ");
```

```
    }
```

```
    System.out.println();
```

```
}
```

/*

What would be the output after execution of this code segment? (ignore spacing)

(A) 9 7 5 3 1

9 7 5 3

9 7

9

(B) 9 7 5 3 1

7 5 3 1

5 3 1

3 1

1

(C) 1

3 1

5 3 1

7 5 3 1

9 7 5 3 1

(D) 1

1 3

1 3 5

1 3 5 7

1 3 5 7 9

(E) 1 3 5 7 9

1 3 5 7

1 3 5

1 3

1

*/