Control Loops

How many times does the ‘for’ loop shown below execute?

```java
for (int i = -5; i < 30; i += 5) {
    // Do something useful
}
```

A. 7 times
B. 8 times
C. 9 times
D. Will not compile!

Question - 1

What does the following code print for the final value of the loop variable?

```java
char c;
for (c = 'A'; c < 'S'; c++)
    System.out.println("c is " + c);
```

A. c is R
B. c is S
C. c is T
D. Will not compile!

Question - 4

On to the lecture
How many pairs of numbers does the complex loop shown below print?

```java
for (int left = 0, right = 9; left <= right; left++, right--)
    System.out.println(left + "," + right);
```

A. 0 times  
B. 5 times  
C. 10 times  
D. 100 times  
E. None of the above

How many lines does the nested loop shown below print?

```java
for (int row = 0; row < 10; row += 2) {
    for (int col = 0; col < 50; col += 10) {
        System.out.println(row + "," + col);
    }
}
```

A. 20 times  
B. 25 times  
C. 36 times  
D. 500 times  
E. Different each time it runs!

Which of the following correctly prints the entire contents of the string?

```java
String s = "Programming is fun!";
```

A. for (int i=0; i < s.length(); i++) { System.out.print(s.charAt(i)); }  
B. for (int i=1; i < s.length(); i++) { System.out.print(s.charAt(i)); }  
C. for (int i=0; i < s.length(); i++) { System.out.print(s.charAt(i)); }  
D. for (int i=0; i < s.length(); i++) { System.out.print(s.charAt(i)); }  
E. None of the above
What is the last thing printed by the ‘for’ loop shown below?

```java
for (String s = "Hello"; s.length() <= 10; s += "!") {
    System.out.println(s);
}
```

A. Hello
B. Hello!
C. Hello!!!!
D. !!!!!!
E. None of the above