

# Name:

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Please respond to the following questions. Be as *explicit* as possible in your answers.

1. What does it mean to compile Java code, and why is that necessary?
2. When I compile my Java program, I run into the following error. What line is the error on, what is the error, and what steps should I take to fix the bug?

```
Program.java:17: error: ';' expected
    System.out.println("Bug free!")
```

3. I want to store my cat's weight in pounds into a variable. What type of variable would be best, and why?
4. Consider the String `"Pumpkin"`. What is the length of the String, and what is the index of the character `'n'`?
5. Describe what is happening in the following snippet of code. Reminder: be as explicit as possible, and use the vocabulary we've learned about variables, types, memory, etc.

```
Scanner sc = new Scanner(System.in);
System.out.println("How many jellybeans do you see?");
int jellybeans = sc.nextInt();
```