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Stage 8 Post

Fill in The Blank From the Vocabulary List

1. If, when a loop starts to run, we know how many times it will execute, it is a Count-Controlled Loop.

2. If the JUnit bar stops before the end and/or the fans on your computer start running, it is likely that you have an Infinite loop.

3. The fact that the compiler uses Short-cutting evaluation when it evaluates conditions helps us not walk off the end of a String or array.

Be the Machine

For each of the following conditions, tell whether it will execute the second half of the condition. Assume that x and y are integers with x = 42, y = 99, and that z is a boolean that holds false.

4. ((x > 42) && (y < 100))

   No

5. ((x > 42) || (y < 100))

   Yes

6. ((x < 42) && (y < 100))

   No

7. ((x < 42) || (y < 100))

   Yes

8. (z && (x > 42))

   No

9. (!z && (x < 42))

   Yes

For each of these, tell whether it needs a count-controlled or a sentinel-controlled loop

10. You want to sum up the values in an array of integers

Count controlled

11. You want to find the position of the first negative number in an array of integers

Sentinel Controlled

12. You want to count how many "Smith"s are in an array of Strings

Count controlled

13. You want to compute the average of an array of integers

Count Controlled

14. You want to know whether an array of Strings contains any "Smith"s (be as efficient at possible).

Sentinel Controlled