Module 4 quiz on FOR loops

LATEST SUBMISSION GRADE

100%

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1. Given the following loop:

                  1 / 1 point

```
1    for (int i = 1; i < 5; i = i+1) {
2        out.println("Hello world!");
3    }
```

How many lines of output will be printed?

- ○ 0
- ◉ 4
- ○ 5
- ○ 6
- ○ infinitely many

✓ **Correct**

2. Given the following loop:

                  1 / 1 point

```
1    for (int i = 5; i >= 0; i--) {
2        out.println("Hello world!");
3    }
```

How many lines of output will be printed?

- ○ 0
- ○ 4
- ○ 5
- ◉ 6
- ○ infinitely many

✓ **Correct**

3. Given the following loop:

```
1   for (int i = 1; i <= 5; i++) {
2       for (i = 1; i <= 3; i++) {
3           out.println("Hello world!");
4       }
5   }
```

How many lines of output will be printed?

○ 0

○ 4

○ 5

○ 6

◉ infinitely many

✓ **Correct**

4. Given the following loop:

```
1   for (int i = 1; i <= 5; i++) {
2       for (int j = 1; j < i; j++) {
3           out.println("Hello world!");
4       }
5   }
```

How many lines of output will be printed?

○ 0

○ 5

◉ 10

○ 15

○ infinitely many

✓ **Correct**

5. Fill in the blank of the following loop so that 10 lines of output are printed:

```
1   for (int i = _____ ; i <= 15; i++) {
2       out.println("Hello world!");
3   }
```

6

6

✓ **Correct**

6. Given the following loop:

```
1    for (int i = 1; i <= 5; i++) {
2        for (int j = 1; j > i; j++) {
3            out.print("*");
4        }
5        out.println();
6    }
```

How many stars will be printed in total?

- ◉ 0
- ○ 5
- ○ 10
- ○ 15
- ○ infinitely many

✓ **Correct**

7. Given the following loop:

```
1    for (int i = 1; i <= 8; i++) {
2        out.print(_____ + " ");
3    }
```

What expression would you put in the print statement to produce the following sequence as output:

```
1    5 13 21 29 37 45 53 61
```

Please specify your answer in the form: a*i+b or a*i-b, where a & b are replaced by integer constants. For example, a correctly specified answer would look like this: 5*i-8 **or this:** -4*i+6

Do not use parentheses or spaces in your answer.

8*i-3

✓ **Correct**

8. Fill in the blank of the following loops so that the following pattern is printed:

1   *********
2   *******
3   *****
4   ***
5   *
6

```
1    for (int i = 1; i <= 5; i++) {
2        for (int j = 1; j <= i-1; j++) {
3            out.print(" ");
4        }
5        for (int j = 1; j <= _____; j++) {
6            out.print("*");
7        }
8        out.println();
9    }
```

Please specify your answer in the form: a*i+b or a*i-b, where a & b are replaced by integer constants. For example, a correctly specified answer would look like this: 5*i-8 or this: -4*i+6

Do not use parentheses or spaces in your answer.

-2*i+11

✓ **Correct**