

Module 4 quiz on FOR loops

LATEST SUBMISSION GRADE

100%

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 = 0; 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 / 1 point

```
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 / 1 point

```
1 = for (int i = 0; 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 / 1 point

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

Preview
6

6

✓ Correct

6. Given the following loop:

1 / 1 point

```
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 / 1 point

```
1 for (int i = 1; i <= 10; i++) {  
2   out.print(_____ + " ");  
3 }
```

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

1 12 13 14 15 16 17 18 19

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.

11+i

✓ Correct

This answer is not in the required form, but it is correct.

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

1 / 1 point

```
1 *****  
2 *****  
3 *****  
4 ****  
5 ***  
6 **  
7 *8
```

```
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