Pre-Course Quiz

13/13 questions correct

Excellent!

Retake

Next (/learn/object-oriented-java/lecture/YYcrp/in-the-real-world-welcome-from-google-engineers)

✔ 1.

Hold on, isn't it a bit too early for a quiz?

One of the most common questions we've gotten is "Am I ready for this course?" To help you answer this question, we encourage you to work through this quiz. Half of these questions ask about your experience, while the other half are technical question that involve programming in Java.

If you score less than 50%, we recommend you look into this Coursera Introduction Java Programming Specialization (https://www.coursera.org/specializations/java-programming) and come back to us when you complete those courses.

However, you are very welcome to stick with this course instead if you prefer, and if you don't mind brushing up on your Java programming as needed along the way.

So let's begin:

Have you written code in Java?

◉ Yes

Well done!
That's great, because this course assumes you have a basic background in Java programming

○ No

✔ 2.

Have you written code with explicitly typed variables, i.e. where you have to declare your variables to have specific types? For example:

```
int i = 5;
double d = 5.2;
```

If you have written code in Java, C, or C++, you probably have. If you have written code only in Python or Javascript, you probably have not.

○ Yes

Well done!
Great. Even if you have not worked in Java, working with variables with explicitly declared types is a skill you will need for this course.

○ No

✔ 3.

Have you written code that uses conditional statement (if-statements), including using compound boolean expressions (e.g. x < 5 && x > 0) and multiple if-else clauses (e.g. if... else if... else), to solve problems?

○ Yes

Well done!
Great! You'll be relying on that skill in this course.

○ No, or I'm not sure

4.

Have you implemented code that uses for-loops and while-loops, including nested for-loops?

- Yes

Well done!
Great! We'll be relying on that skill in this course.

- Not all of these, or I'm not sure

5.

Have you written methods that take parameters, both with and without return values?

- Yes

Well done!
Great! You'll be writing lots of methods in this course.

- No, or I'm not sure

6.

Have you written code that manipulates (i.e. accesses and/or changes the values in) arrays in Java? E.g.

```
// Assume arr is an array of ints
int sum = 0;
for (int i = 0; i < arr.length; i++) {
    sum += arr[i];
    arr[i] += 1;
}
```

- Yes

Well done!
Great! We'll be working with arrays (and ArrayLists which are Java's built-in class that behave like an array) in this course.

○ No

✔ 7.

What is the output of the following Java code (assume the code is in main)?

```
int x = 7;
int y = x;
x = 2;
System.out.println(x + ", " + y);
```

○ 2, 7

Well done!
Great! y = x is just an assignment, so y gets the value of x at that point in time. It does not store a relationship between y and x like in math.

○ 2, 2

✔ 8.

What is the output from the following code?

```
public class Question2 {
   public static void main(String[] args) {
      int a = 5;
      int b = 7;
      swap(a,b);
      System.out.println(a + ", " + b);
   }
   public static void swap(int a, int b) {
      int temp = a;
      a = b;
      b = temp;
   }
}
```

○ 5, 7

Well done!
Great! Java is pass by value, so the swap method only swaps the parameters **a** and **b**, not the original values of **a** and **b** in main.

○ 7, 5

✔ 9.

Assume the method below is in the Turtle class.

```
public class Turtle {
  // Other code here

  public Turtle() {
     // default constructor code here
  }

  // draw a line from current location to the location
  // specified
  public void drawLine(int x, int y) {
    // more code
  }
}
```

What is the right way to call the drawLine method above?

○
```
Turtle t = new Turtle();
t.drawLine(10,10);
```

Well done!
This is the correct way to call the drawLine method.

- ```
  Turtle t = new Turtle();
  t = t.drawLine(10,10);
  ```

- ```
  Turtle.drawLine(10,10);
  ```

✔ 10.

What is the output from running the following code?

```
public class Question4 {
  public static void main(String [] args) {
    for( int i = 0; i<5; i++) {
      System.out.println(i);
    }
  }
}
```

- 0
  1
  2
  3
  4

Well done!

- 1
  2
  3
  4
- 0

1

2

3

4

5

1

2

3

4

5

11.

```
public class Question5 {
  public static void main(String [] args) {
    for( int x = 0; x<3; x++) {
      // XXX FOR LOOP MISSING //
        System.out.println(x + ", "+y);
      }
    }
  }
}
```

Which "for" loop should go in the code above to produce the output below:

0, 0

0, 1

1, 0

1, 1

2, 0

2, 1

```
for(int y = 0; y < 2; y++) {
```

Well done!
This is the correct response.

```
for(int y = 0; y <= 2; y++) {
```

```
for(int y = 0; y < 3; y++) {
```

12.

```
public class Question12 {
  public static void main(String[] args) {
    int[] array = {20, -10, 15, -7, -8, 45};
    int sum = 0;
    for(int i = 0; i<array.length;i++) {
      // MISSING IF STATEMENT //
        sum+=array[i];
      }
    }
    System.out.println(sum);
  }
}
```

In the code above, which if statement below would make it so only the positive values in the array are summed? The output of this program should be:

80

```
if(i >= 0) {
```

```
if(array[i] > 0) {
```

Well done!
This is the correct response.

```
if(array[i] < 0) {
```

```
if(i > 0) {
```

13.

If you score less than 50% on this quiz, what should you do?

- We recommend you look into an earlier course on Java programming. Specifically, we recommend the Java Programming: An Introduction to Software Specialization (https://www.coursera.org/specializations/java-programming) by Duke University.

Well done!
This is the correct response. If you score less than 50%, we believe you'll be better served by trying an introductory course and then coming back, than trying to push on in this course. We'd love to have you come back!

If you score above 50%, you're in the right place!

- Advance to the next video.