

Quiz 1



Name: \_\_\_\_\_

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What percentage of points will be lost as a result of submitting a lab report two days late?

True or false: Attendance in lab is required. object types.

List one of the three ways a student could automatically lose 50% of the points on an assignment that is turned in on time.

Complete the following program so that it displays the following:

```
Java  
rulers
```

```
package edu.msoe.se1010.quiz2;  
  
public class Quiz2 {  
    public static void main(String[] args) {
```

```
    }  
}
```

Complete the following program so that it uses the `substring` method to display the last five characters of the `String` object called `phrase`.

```
package edu.msoe.se1010.quiz3;  
  
public class Quiz3 {  
    public static void main(String[] args) {  
        String phrase = "Don't forget that we have an exam in this class next week."  
        System.out.println(  

```

```
    }  
}
```

Complete the following program so that it reads the first five (you may assume that at least five lines are in the file) lines of the file and displays the first and fifth lines in the console.

```
package edu.msoe.se1010.quiz3;  
  
public class Quiz4 {  
    public static void main(String[] args) {
```

```
    }  
}
```

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Explain the differences between a reference to an object and a primitive. Give at least one example of each and graphically depict how they appear in memory.

Complete the following method which accepts an angle in degrees and returns the sine of the angle. Note that the `Math` class has a method that calculates the trigonometric sine of an angle but it expects the angle to be in radians (not degrees). Recall: 1 radian is  $180/\pi$  degrees.

```
public static double sine(double angleDegrees) {
```

```
}
```

Provide an implementation for the `toString()` method of the following `Complex` class so that it displays complex numbers consistent with the following forms:  $0$ ,  $5i$ ,  $3$ ,  $3+5i$ ,  $3-5i$ ,  $-5i$ ,  $3+i$ ,  $3-i$ ,  $i$ ,  $-1$ .

```
public class Complex {  
    private int real;  
    private int imaginary;  
  
    // ...  
  
}
```