



LEBANESE AMERICAN UNIVERSITY
Electrical and Computer Engineering Dept

COE 212
Engineering Programming

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Quiz II

Problem I

- 1) Which of the following statements correctly stores in the variable called `val` a random value between 2 (inclusive) and 7 (inclusive)? Assume that `rnd` is a Random object that was created correctly.
 - a. `int val = rnd.nextInt(7) + 1;`
 - b. `int val = rnd.nextInt() % 6 + 2;`
 - c. Both of the above
 - d. **None of the above**

- 2) Which of the following correctly prints the last 2 characters of the String variable called `str`? Assume that `str` was created correctly and that it stores more than 2 characters.
 - a. `System.out.print(str.substring(length()-2));`
 - b. `System.out.print(str.substring(length()-2, length()));`
 - c. Both of the above
 - d. **None of the above**

- 3) Which of the following results in a compile-time error? Assume that the DecimalFormat object called `fmt` was properly created.
 - a. **`double value = fmt.format(2.345);`**
 - b. `Double value = Double.parseDouble(fmt.format(2.345));`
 - c. Both of the above result in a compile-time error
 - d. Neither (a) nor (b) result in a compile-time error

- 4) Which of the following statements is an example of autoboxing?
 - a. `double value = new Double(1.234);`
 - b. **`Double value = 1.234;`**
 - c. `Double value = new Double(1.234);`
 - d. None of the above

- 5) Which of the following is not **static**?
 - a. `PI`
 - b. `parseInt`
 - c. **`replace`**
 - d. All of the above are static

Problem II

1. The following code fragment creates two variables called a and b that are aliases of each other.

```
Integer a = 23;  
Integer b = new Integer(45);  
a = b;
```

Answer: **True** False

2. The following statement stores in val a random int value in the range of -1 (inclusive) to 7 (inclusive):

```
int value = (int) Math.random() * 9 - 1;
```

Answer: True **False**

3. The following statement prints out: 1

```
System.out.print(Math.pow(4, 1/2));
```

Answer: True **False**

4. The following statement prints out: exam

```
System.out.print('e' + 'x' + "am");
```

Answer: True **False**

5. The following statement prints out: NaN

```
System.out.print(  
Math.sqrt(Math.PI - Math.pow(3, 2)));
```

Answer: **True** False