questions.md 12/6/2018

1. Which primitive or class would make the DivideByTwo method print the following output, given x = 7.5?

```
public class QuickMaths {
  public static void DivideByTwo(<type> x) {
    System.out.println(x / 2);
  }
}
```

```
QuickMaths.DivideByTwo(7.5) == 3.75
^ (This should be true)
a. int
b. String
c. double
d. Scanner
```

2. An interface is a way to abstractly represent a class so that you can specify how a class should look without writing any logic. To *implement* an interface, you must write a class that has every method defined in the interface.

Write an implementation of the following interface:

```
interface IHouse {
  private double cost;
  private String address;
  private int footage;
  private int numRooms;

public String getFormattedCost(); // i.e. $350,000
  public double getCostAsNumber(); // i.e. 350000
  public String getFormattedFootage(); // i.e. 2000 sq. ft.
  public double getAvgFootagePerRoom();
  public void setCost(double cost);

House(double cost, String address, int footage, int numRooms);
}
```

```
class House implements IHouse {
  // Your code here!
}
```

3. What is the range of possible values printed by this program? (Square brackets mean inclusive, parentheses mean the opposite)

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```
public class RandAdd {
  public static void main(String[] args) {
    double a = Math.random() * 10;
    double b = Math.random() * 5 + 5;

    System.out.print(a + b);
  }
}
```

- a. [5-20)
- b. (5-10)
- c. (1-21)
- d. (5-25]
 - 4. Which of the following is *not* a primitive in Java?
- a. int
- b. char
- c. medium
- d. byte
 - 5. Which of the following will return false if strings a and b are equivalent?

```
a. a == b
b.!(a.compareTo(b) == 0)
c. a.equals(b)
d.!!a.format(b)
```