

## CS1101X – QQ (Quick Quiz)

Marks: / 10

Week 6

A quick one to check whether you have been attentive in class. ☺

Do not refer to any reading material.

1. There are two types of method. One is called class method and the other is called \_\_\_\_\_ method.
2. What is the modifier in the header (signature) of a method that makes it a class method? \_\_\_\_\_
3. Suppose ClassA and ClassB are two classes. What is the type of method for methodA()? What is the type of method for methodB()?

```
ClassA var1 = ...  
... = var1.methodA();  
... = ClassB.methodB();
```

methodA() is a \_\_\_\_\_ method.

methodB() is a \_\_\_\_\_ method.

4. You looked up the API page for a particular method aMethod() of class ClassZ and saw these headers:

```
public static double aMethod(int a, int b)  
public static int aMethod(double a, double b)
```

Is this possible? \_\_\_\_\_

If yes, what is it called? \_\_\_\_\_

If no, why? \_\_\_\_\_

5. Given the method aMethod() in question 4 above, can the statement below work? Why or why not?

```
int v = ClassZ.aMethod(3, 5);
```

Answer: \_\_\_\_\_

6. A *leap year* is one that is divisible by 4 but not by 100 (examples: 1980, 2008, 2176), or if it is divisible by 400 (examples: 1600, 2400, 2800). Otherwise, it is not a leap year (examples of non-leap year: 1873, 1900, 2006, 2100, 3000).

You have a boolean variable `isLeapYear` in your program. Complete the following code so that `isLeapYear` has the correct boolean value.

```
int year = stdin.nextInt();
boolean divBy4 = (year % 4 == 0);
boolean divBy100 = (year % 100 == 0);
boolean divBy400 = (year % 400 == 0);
boolean isLeapYear = _____;
```

7. What is the output of this code?

```
int a = 3, b = 9, c = 7;
if (a > b);
    System.out.println("AA");
if (b > c)
    System.out.println("BB");
else
    System.out.println("CC");
```

Output: \_\_\_\_\_

8. What is the output of this code?

```
int sum = 0;
for (int i=1; i<=i; i++)
    sum += i;

System.out.println(sum);
```

Output: \_\_\_\_\_

9. Besides the classes that you have learned (String, Scanner, wrapper classes, Math, Random, DecimalFormat), have you explored and found out any on your own? If so, list out one class and one of its methods. Give yourself two marks!

Class: \_\_\_\_\_

Method: \_\_\_\_\_

Please do not reveal the questions to other groups.
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