

CS6312: Program Construction II [S18]

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| Started on | Sunday, January 14, 2018, 7:26 PM |
| State | Finished |
| Completed on | Sunday, January 14, 2018, 7:36 PM |
| Time taken | 9 mins 48 secs |
| Grade | 8.00 out of 10.00 (80%) |

Question 1

Correct

1.00 points out of 1.00

Flag question

What is the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String s1 = "Welcome to Java!";
        String s2 = "Welcome to Java!";

        if (s1 == s2)
            System.out.println("s1 and s2 reference to the same String object");
        else
            System.out.println("s1 and s2 reference to different String objects");
    }
}
```

Select one:

☐ a. s1 and s2 reference to different String objects

☒ b. s1 and s2 reference to the same String object ✓

Question 2

Incorrect

0.00 points out of 1.00

Flag question

What is the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String s1 = new String("Welcome to Java!");
        String s2 = s1.toUpperCase();

        if (s1 == s2)
            System.out.println("s1 and s2 reference to the same String object");
        else if (s1.equals(s2))
            System.out.println("s1 and s2 have the same contents");
        else
            System.out.println("s1 and s2 have different contents");
    }
}
```

Select one:

☐ a. s1 and s2 have different contents

☒ b. s1 and s2 reference to the same String object ✗

☐ c. s1 and s2 have the same contents

Question 3

Correct

1.00 points out of 1.00

Flag question

The method equals, compareTo, charAt, and length are in the _____ class.

Select one or more:

☒ a. StringBuilder ✓

☒ b. String ✓

☐ c. Character

☒ d. StringBuffer ✓

Question 4

Correct

1.00 points out of 1.00

Flag question

Which of the following statements will convert a string s into i of int type?

Select one or more:

☒ a. i = Integer.parseInt(s); ✓

☒ b. i = Integer.valueOf(s).intValue(); ✓

☐ c. i = Integer.valueOf(s);

☒ d. i = (int)(Double.parseDouble(s)); ✓

☒ e. i = (new Integer(s)).intValue(); ✓

Question 5

Correct

1.00 points out of 1.00

Flag question

_____ is attached to the class of the composing class to denote the aggregation relationship with the composed object.

Select one:

☒ a. An empty diamond ✓

☐ b. An empty oval

☐ c. A solid diamond

☐ d. A solid oval

Question 6

Correct

1.00 points out of 1.00

Flag question

_____ returns the last character in a StringBuilder variable named strBuf?

Select one:

☐ a. strBuf.charAt(strBuf.capacity() - 1)

☒ b. strBuf.charAt(strBuf.length() - 1) ✓

☐ c. StringBuilder.charAt(strBuf.length() - 1)

☐ d. StringBuilder.charAt(strBuf.capacity() - 1)

Question 7

Correct

1.00 points out of 1.00

Flag question

Which of the following statements is correct?

Select one or more:

☒ a. Integer.parseInt("345", 8); ✓

☐ b. Integer.parseInt(100, 16);

☒ c. Integer.parseInt("100"); ✓

☐ d. Integer.parseInt(100);

☐ e. Integer.parseInt("12", 2);

Question 8

Correct

1.00 points out of 1.00

Flag question

Analyze the following code.

```
class Test {
    public static void main(String[] args) {
        StringBuilder strBuf = new StringBuilder(4);
        strBuf.append("ABCDE");
        System.out.println("What's strBuf.charAt(5)? " + strBuf.charAt(5));
    }
}
```

Select one:

☒ a. The program has a runtime error because the length of the string in the buffer is 5 after "ABCDE" is appended into the buffer. Therefore, strBuf.charAt(5) is out of range. ✓

☐ b. The program has a runtime error because because the buffer's capacity is 4, but five characters "ABCDE" are appended into the buffer.

☐ c. The program compiles and runs fine.

☐ d. The program has a compilation error because you cannot specify initial capacity in the StringBuilder constructor.

Question 9

Correct

1.00 points out of 1.00

Flag question

To divide BigDecimal b1 by b2 and assign the result to b1, you write _____.

Select one:

☐ a. b2.divide(b1);

☐ b. b1 = b2.divide(b1);

☒ c. b1 = b1.divide(b2); ✓

☐ d. b1.divide(b2);

Question 10

Incorrect

0.00 points out of 1.00

Flag question

What is the output of the following code?

```
public class Test {
    public static void main(String[] args) {
        String s1 = new String("Welcome to Java!");
        String s2 = new String("Welcome to Java!");

        if (s1 == s2)
            System.out.println("s1 and s2 reference to the same String object");
        else
            System.out.println("s1 and s2 reference to different String objects");
    }
}
```

Select one:

☒ a. s1 and s2 reference to the same String object ✗

☐ b. s1 and s2 reference to different String objects

Finish review