Kent Kraus Courses@CS CS Department csX Lab Faculty Office Hours Course Archives

Started on Sunday, January 14, 2018, 7:26 PM

CS6312: Program Construction II [S18]

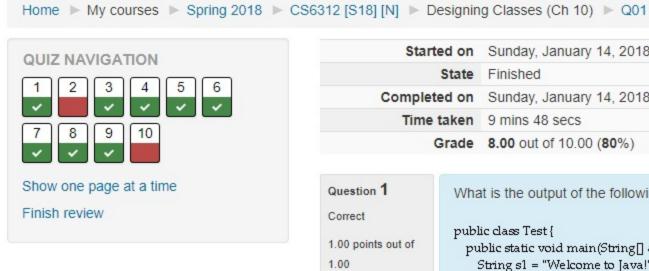
Question 6

Question 7

Question 8

Incorrect

1.00



```
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
                     What is the output of the following code?
Correct
                     public class Test {
1.00 points out of
                       public static void main(String[] args) {
                         String s1 = "Welcome to Java!";
                         String s2 = "Welcome to Java!";
Flag question
                         if (s1 == s2)
                           System.out.println("s1 and s2reference to the same String object");
                           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
                     What is the output of the following code?
Incorrect
                     public class Test {
```

```
0.00 points out of
                       public static void main(String[] args) {
1.00
                          String s1 = new String("Welcome to Java!");
                         String s2 = s1.toUpperCase();
Flag question
                           System.out.println("s1 and s2 reference to the same String object");
                          else if (sl.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 X
                            c. s1 and s2 have the same contents
```

```
Question 3
                    The method equals, compareTo, charAt, and length are in the
Correct
                    Select one or more:
                    a. StringBuilder 
1.00
                    b. String 
Flag question
                         c. Character

 d. StringBuffer 

Question 4
                    Which of the following statements will convert a string s into i of int type?
Correct
                    Select one or more:
1.00 points out of
                     a. i = Integer.parseInt(s); 
                         b. i = Integer.valueOf(s).intValue();
```

```
Flag question
                           c. i = Integer.valueOf(s);
                          d. i = (int)(Double.parseDouble(s)); 
                           e. i = (new Integer(s)).intValue(); √
Question 5
                               is attached to the class of the composing class to denote the aggregation relationship with the composed
                    object.
Correct
```

```
1.00 points out of
                   Select one:
1.00

 a. An empty diamond 

Flag question
                         b. An empty oval
                         c. A solid diamond
                         d. A solid oval
```

```
Correct
                     Select one:
1.00 points out of
                           a. strBuf.charAt(strBuf.capacity() - 1)
                            b. strBuf.charAt(strBuf.length() - 1) √
Flag question
                            c. StringBuilder.charAt(strBuf.length() - 1)
                            d. StringBuilder.charAt(strBuf.capacity() - 1)
```

returns the last character in a StringBuilder variable named strBuf?

Which of the following statements is correct?

```
Correct
                     Select one or more:
1.00 points out of
                     a. Integer.parseInt("345", 8);
1.00
                           b. Integer.parseInt(100, 16);

▼ Flag question

                           c. Integer.parseInt("100"); 
                           d. Integer.parseInt(100);
                           e. Integer.parseInt("12", 2);
```

```
Analyze the following code.
Correct
                    class Test {
1.00 points out of
                      public static void main(String[] args) {
1.00
                        StringBuilder strBuf = new StringBuilder(4);
                        strBuf.append("ABCDE");
Flag question
                        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
                     To divide BigDecimal b1 by b2 and assign the result to b1, you write
Correct
                     Select one:
1.00 points out of

    a. b2.divide(b1);

1.00
                           b. b1 = b2.divide(b1);
Flag question
                           c. b1 = b1.divide(b2); 
                           d. b1.divide(b2);
```

```
Question 10
                      What is the output of the following code?
                      public class Test {
0.00 points out of
                        public static void main(String[] args) {
                          String s1 = new String("Welcome to Java!");
                         String s2 = new String("Welcome to Java!");
Flag question
                           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 X

                            b. s1 and s2 reference to different String objects
```