CSA C.10 Practice

Started: Dec 10 at 12:48am

Quiz Instructions

2 attempts

Highest score is counted

Question 1 — 100 pts

What does the following code display?

```
int d = 9, e = 12;
System.out.printf("%d %d\n", d, e);
```

- ○ `%9 %12`
- ○ `%d %d`
- ○ `%d 9`
- ◉ `9 12`

Question 2 — 100 pts

What does the following code display?

```
double x = 12.3798146;
System.out.printf("%.2f\n", x);
```

- `%12.38`
- `123798146`
- `1238`
- `12.38`

Question 3

100 pts

Which of the following will format `12.7801` to display as `$12.78`?

- `System.out.printf("$%,.2f", 12.7801);`
- `System.out.printf("%.2f$$", 12.7801);`
- `System.out.printf("%f", 12.7801);`
- `System.out.printf("$d", 12.7801);`

Question 4

100 pts

Which code snippet will always output “Yes!” when s1 and s2 are two strings the contain the same sequence of characters?

```
if (s1 = s2)
{
   System.out.println("Yes!");
}
```

```
if (s1.compareTo(s2) == 1)
{
   System.out.println("Yes!");
}
```

```
if (s1.equals(s2))
{
   System.out.println("Yes!");
}
```

```
if (s1 == s2)
{
   System.out.println("Yes!");
}
```

Question 5

100 pts

What is the output of the following code snippet?

```
String str1 = "her";
String str2 = "cart";
```

```
if (str1.compareTo(str2) < 0)
{
   System.out.print(str2);
}
else
{
   System.out.print(str1);
}
```

- hercart
- carther
- cart
- her

Question 6

100 pts

What is the conditional required to check whether the length of a string `s1` is odd?

- `if ((s1.length() % 2) == 0)`
- `if ((s1.length() / 2))`
- `if ((s1.length() * 2))`
- `if ((s1.length() % 2) != 0)`

Question 7

100 pts

The two strings “Aardvark” and “Aardvandermeer” are exactly the same up to the first six letters. What is their correct lexicographical ordering?

- (●) “Aardvandermeer” is first, then “Aardvark”
- ( ) “Aardvark" is first, then “Aardvandermeer”
- ( ) They cannot be compared lexicographically unless they are the same length
- ( ) The shorter word is always first

Question 8

100 pts

Which `if` statement is true when the length of string `s1` is greater than 42?

- ( ) `if (42 > s1.length())`
- ( ) `if (s1.length() != 42)`
- ( ) `if (42 != s1.length())`
- (●) `if (s1.length() > 42)`

Question 9

100 pts

What is the output of the following code snippet?

```
String someString1 = "his";
String someString2 = "cycle";
if (someString1.compareTo(someString2) < 0)
{
   System.out.println(someString2);
}
else
{
   System.out.println(someString1);
}
```

- `cycle`
- `his`
- There is no output due to compilation errors.
- `hiscycle`

Question 10

100 pts

Which of the following conditions will correctly check if the `String` variable `greeting` is "`bonjour`"?

- `if (greeting.compareTo("bonjour") < 0)`
- `if (greeting.equals("bonjour"))`
- `if (greeting.compareTo("bonjour") > 0)`
- `if (greeting == "bonjour")`

Question 11

100 pts

Which of the following conditions will correctly check if the `String` variable `early` comes before "middle" alphabetically?

- `if (greeting <= "middle")`
- `if (greeting.compareTo("middle") == 0)`
- `if (greeting.compareTo("middle") > 0)`
- `if (early.compareTo("middle") < 0)`

Question 12

100 pts

Which of the following options checks that `city` is neither Chicago nor Dallas?

- `if (!(city.equals("Chicago") && city.equals("Dallas")))`

- (●) `if (!(city.equals("Chicago") || city.equals("Dallas")))`
- ( ) `if (!city.equals("Chicago") || !city.equals("Dallas"))`
- ( ) `if (!city.equals("Chicago") || city.equals("Dallas"))`

Question 13

100 pts

Which of the following options checks that the string `country` is neither China nor Denmark?

- ( ) `if (!country.equals("China") || !country.equals("Denmark")`
- ( ) `if (!(country.equals("China") && country.equals("Denmark")))`
- (●) `if (!(country.equals("China") || country.equals("Denmark")))`
- ( ) `if (country.equals("China") || country.equals("Denmark"))`

Question 14

100 pts

Which of the following conditions tests for the user to enter the string "Hello"?

- ( ) `if (s.substring(0,5) == "Hello")`
- (●) `if (s.equals("Hello"))`

- `if (s == "Hello")`
- `if (s = "Hello")`

Question 15

100 pts

Which of the following options checks that character ch is neither a letter nor a white space?

- `if (!Character.isLetter(ch) || Character.isWhiteSpace(ch))`
- `if (!(Character.isLetter(ch) || Character.isWhiteSpace(ch)))`
- `if (!(Character.isLetter(ch) && Character.isWhiteSpace(ch)))`
- `if (!Character.isLetter(ch) || !Character.isWhiteSpace(ch))`

Question 16

100 pts

Given **double x = 54321.0**. Fill in the blank
System.out.printf("__", x);
to produce **54321.00**

- %7.00f
- %7.2f

- %7.3f

Question 17

100 pts

How do you get the length of the string `str`?

- str.length
- str.length()
- length.str
- length(str)

Question 18

100 pts

If a String object has length 7, what is its last position/index?

- 6
- 8
- 7

Question 19

100 pts

How do you extract the first 4 characters of String **str**?

- (●) str.substring(0, 4)
- ( ) str.substring(4)
- ( ) substring(str, 3)
- ( ) substring(str, 4)
- ( ) str.substring(0, 3)

Question 20

100 pts

Given **String st = "CALIFORNIA"**, what does **st.substring(1,3)** return?

- (●) ALI
- ( ) AL
- ( ) CAL
- ( ) CA

Question 21

100 pts

How do you get the 4th character of String object **str**?

- char c = str.charAt[4];
- char c = str.charAt[3];
- (•) char c = str.charAt(3);
- char c = str.charAt(4);

Question 22

100 pts

What does `Integer.parseInt("123.45")` do?

- (•) Throws a `NumberFormatException`
- Returns `Integer.MIN_VALUE`
- Returns 0
- Returns 45
- Returns 123

Question 23

100 pts

Write a statement to convert string `str` to variable `d` of `double` type.

- `d = Integer.ParseInt(str);`
- `d = Byte.ParseByte(str);`
- `d = Double.ParseDouble(str);` (selected)
- `double d = Long.ParseLong(str);`

Question 24

100 pts

Each of the numeric wrapper classes has a static method to converts its own number to a string. What is this method called?

- `getString`
- `convert`
- `toString` (selected)
- `parse`

Question 25

100 pts

Consider the squareRoot method defined below:

```
/** @param d a real number such that d >= 0
 *  Postcondition: Returns a Double whose value is the square
 *                 root of the value represented by d.
 */
public Double squareRoot(Double d)
{
    /* implementation code */
}
```

Which /* *implementation code* */ satisfies the postcondition?

I
```
double x = d.doubleValue();
x = Math.sqrt(x);
return new Double(x);
```

II
```
return new Double(Math.sqrt(d.doubleValue()));
```

III
```
return Double(Math.sqrt(d.doubleValue()));
```

- ○ I, II, and III
- ○ I only
- ◉ I and II only
- ○ II and III only
- ○ I and III only

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