

WEEK 6 -STRING,STRING BUFFER MCQS

Question 1

Complete

Marked out of 1.00

☐ Flag question

Which expression will extract the substring "kap" from a string defined by `String str = "kakapo"`?

- ☐ a. `str.substring(2, 2)`
- ☒ b. `str.substring(2, 5)`
- ☐ c. `str.substring(2, 4)`
- ☐ d. `str.substring(2, 3)`

Question 2

Complete

Marked out of 1.00

☐ Flag question

Say that `names` has been declared

```
String[] names = new String[10];
```

and that further statements (not shown) have put `String` references into some of the slots.

Which of the following fragments counts the number of non-null slots in the array?

- ☒ a.

```
int count = 0;
for ( int j = 0; j < names.length; j++ )
    if ( names[j] != null )
        count++ ;
```
- ☐ b.

```
int j = 0;
for ( int count = 0; count < names.length; count++ )
    if ( names[j] != null )
        j++ ;
```
- ☐ c.

```
int count = 0;
while ( names[ count ] != null )
{
    count++ ;
}
```
- ☐ d.

```
int j = 0;
int count = 0;
while ( names[ ++j ] != null )
    count++ ;
```

Question 3

Complete

Marked out of 1.00

☐ Flag question

Which method is not defined in the `String` class?

- ☐ a. `length()`
- ☐ b. `concat(String)`
- ☒ c. `reverse()`
- ☐ d. `hashCode()`

Question 4

Complete

Marked out of 1.00

☐ Flag question

Which one of the expressions will evaluate to true if preceded by the following code?

```
String str1 = "unread";  
String str2 = new String(str1);  
String str3 = str1;  
char[] str4 = { 'u', 'n', 'r', 'e', 'a', 'd' };
```

- ☐ a. (str1 == "Unread")
- ☐ b. str1.equals(str4)
- ☐ c. (str1 == str2)
- ☒ d. str1.equals(str2)

Question 5

Complete

Marked out of 1.00

☐ Flag question

What will the following program print when run?

```
public class Search {  
    public static void main(String[] args) {  
        String s = "Contentment!";  
        int middle = s.length() / 2;  
        String nt = s.substring(middle - 1, middle + 1);  
        System.out.println(s.lastIndexOf(nt, middle));  
    }  
}
```

- ☐ a. 2
- ☐ b. 7
- ☒ c. 5
- ☐ d. 4

Question 6

Complete

Marked out of 1.00

☐ Flag question

Which one of the following is not legal?

- ☒ a. System.out.println("st" + new String('e' + 'p'));
- ☐ b. System.out.println("st" + "ep");
- ☐ c. System.out.println("st".concat("ep"));

Question 7

Complete

Marked out of 1.00

☐ Flag question

What will be written to the standard output when the following program is run?

```
import static java.lang.System.out;

public class TestOutput {

    public static void main(String[] args) {

        String space = " ";

        String composite = space + "windows" + space + space;

        composite.concat("server");

        String trimmed = composite.trim();

        System.out.println(trimmed.length());

    }

}
```

- ☒ a. 9
- ☐ b. 7
- ☐ c. 13
- ☐ d. 15

Question 8

Complete

Marked out of 1.00

☐ Flag question

Given the following code snippet,

```
4. String d = "bookkeeper";
5. d.substring(1,7);
6. d = "w" + d;
7. d.append("woo");
8. System.out.println(D. ;
```

What is the result? Assume, the code given above is a portion of the code present in a method.

- ☒ a. Compilation fails
- ☐ b. wookkeewoo
- ☐ c. An exception is thrown at runtime
- ☐ d. wbookkeewoo

Question **9**

Complete

Marked out of 1.00

☐ Flag question

Which one of the following operators cannot be used in conjunction with a String object?

- ☐ a. +=
- ☐ b. +
- ☐ c. .
- ☒ d. -

Question **10**

Complete

Marked out of 1.00

☐ Flag question

Given the following,

```
public class StringRef {  
    public static void main(String[] args) {  
        String s1 = "abc";  
        String s2 = "def";  
        String s3 = s2;  
        s2 = "ghi";  
        System.out.println(s1 + s2 + s3);  
    }  
}
```

What is the result?

- ☐ a. Compilation fails.
- ☐ b. abcdefdef
- ☒ c. abcghidef
- ☐ d. abcghighi
- ☐ e. abcdefghi

Question 11

Complete

Marked out of 1.00

☐ Flag question

What is the meaning of null?

- ☒ a. A reference variable that contains null is not referring to an object
- ☐ b. It is a special value used to indicate an error condition
- ☐ c. It is another name for zero
- ☐ d. It is the String object that contains no characters

Question 12

Complete

Marked out of 1.00

☐ Flag question

What does the following statement do?

```
String[] names = new String[10];
```

- ☒ a. It declares `names` to be a reference to an array of String references and constructs an array object which can contain references to 10 String objects
- ☐ b. It declares `names` to be a reference to an array of String references and constructs an array object which contains references to the 10 String objects which it also constructs.
- ☐ c. It declares `names` to be 10 String objects
- ☐ d. It declares `names` to be a reference to an array of String references and constructs an array object which contains "10" in its first slot

Question 13

Complete

Marked out of 1.00

☐ Flag question

What will be the result of attempting to compile and run the following code?

```
class MyClass {  
    public static void main(String[] args) {  
        String str1 = "str1";  
        String str2 = "str2";  
        String str3 = "str3";  
        str1.concat(str2);  
        System.out.println(str3.concat(str1));  
    }  
}
```

- ☐ a. The program will print str3str1str2 when run
- ☒ b. The program will print str3 when run
- ☐ c. The program will print str3str1 when run
- ☐ d. The program will print str3str2 when run

Question 14

Complete

Marked out of 1.00

☐ Flag questionWhat does the following statement do? `String[] widget;`

- ☐ a. It creates an array of length zero named widget
- ☐ b. It declares an array of references to widget objects named String
- ☐ c. It creates a String object named widget
- ☒ d. It declares a variable widget which may in the future hold a reference to an array of references to String objects but is initialized to null

Question 15

Complete

Marked out of 1.00

☐ Flag question

Given the following,

- 14. `String a = "newspaper";`
- 15. `a = a.substring(5,7);`
- 16. `char b = a.charAt(1);`
- 17. `a = a + b;`
- 18. `System.out.println(a);`

What is the result?

- ☐ a. a pep
- ☐ b. app
- ☐ c. apa
- ☐ d. apea
- ☒ e. papp

Question 16

Complete

Marked out of 1.00

☐ Flag question

What does the following statement do? `String glarch;`

- ☒ a. It declares a reference variable `glarch` which may in the future refer to a `String` object but is now initialized to `null`.
- ☐ b. It constructs a `String` object which will contain the characters "glarch"
- ☐ c. It declares an array of `String` objects named `glarch`
- ☐ d. It constructs a `String` object named `glarch`

Question 17

Complete

Marked out of 1.00

☐ Flag question

Say that `names` has been declared

```
String[] names = new String[10];
```

and that further statements (not shown) have put `String` references into some of the slots.

Which of the following fragments prints out every `String`, but skips `null` references?

- ☐ a.

```
for ( int j = 0; j < names.length && names[j] != null; j++ )  
    System.out.println( names[j] );
```
- ☐ b.

```
for ( int j = 0; names[j] != null; j++ )  
    System.out.println( names[j] );
```
- ☐ c.

```
for ( int j = 0; j < names.length; j++ )  
    System.out.println( names[j] );
```
- ☒ d.

```
for ( int j = 0; j < names.length; j++ )  
    if ( names[j] != null )  
        System.out.println( names[j] );
```

Question 18

Complete

Marked out of 1.00

☐ Flag question

What function does the `trim()` method of the `String` class perform?

- ☐ a. It returns a string where the trailing white space of the original string has been removed.
- ☐ b. It returns a string where all the white space of the original string has been removed.
- ☐ c. It returns a string where the leading white space of the original string has been removed.
- ☒ d. It returns a string where both the leading and trailing white space of the original string has been removed.

Complete

Marked out of
1.00

☐ Flag
question

```
4. String d = "bookkeeper";  
5. d.substring(1,7);  
6. d = "w" + d;  
7. d.append("woo");  
8. System.out.println(d);
```

What is the result?

- ☐ a. wbookkeeperwoo
- ☐ b. wbookkeewoo
- ☐ c. wbookkeeper
- ☐ d. wookkeewoo
- ☒ e. Compilation fails

Question **20**

Complete

Marked out of
1.00

☐ Flag
question

What is the difference between

String rats;

and

String[] rats; ?

- ☐ a. The first constructs a single String object; the second constructs an array of String objects
- ☐ b. There is no difference; both declare rats to be a reference variable
- ☐ c. The first initializes rats to null; the second initializes rats to an array of nulls
- ☒ d. The first declares rats to be a reference to a String object, the second declares rats to be a reference to an array of String objects

Question **21**

Complete

Marked out of
1.00

☐ Flag
question

What is a delimiter?

- ☐ a. A delimiter is any character that may be part of a token
- ☐ b. A delimiter is any character that may be part of a number
- ☒ c. A delimiter is a character that separates the tokens in a string.
- ☐ d. A delimiter is the last character of a string

Question **22**

Complete

Marked out of 1.00

☐ Flag question

Which expression will evaluate to true?

- ☒ a. `"Hello there".toLowerCase().equals("hello there")`
- ☐ b. `"HELLO THERE".equals("hello there")`
- ☐ c. `"Hello There".compareTo("hello there") == 0`
- ☐ d. `("hello".concat("there")).equals("hello there")`

Question **23**

Complete

Marked out of 1.00

☐ Flag question

Which statement concerning the `charAt()` method of the `String` class is true?

- ☒ a. expression `"abcdef".charAt(3)` evaluates to the character 'd'.
- ☐ b. The index of the first character is 1.
- ☐ c. The expression `"abcdef".charAt(3)` is illegal.
- ☐ d. The `charAt()` method returns a `Character` object.

Question **24**

Complete

Marked out of 1.00

☐ Flag question

Given the code snippet:

```
String str = new String("Hello");
```

Which of the below mentioned is an invalid call?

- ☐ a. `str.replace("H","h");`
- ☐ b. `str.trim();`
- ☒ c. `str.append("World");`
- ☐ d. `str.substring(2);`

Question **25**

Complete

Marked out of 1.00

☐ Flag question

What is the value of `pos` after the following code executes?

```
String s1 = "ac ded ca";
```

```
int pos = s1.indexOf("d");
```

- ☒ a. 3
- ☐ b. -1
- ☐ c. 4
- ☐ d. 5

Question 29

Complete

Marked out of 1.00

☐ Flag question

How would you declare and initialize the array to declare an array of fruits?

- ☐ a. `String[] arrayOfFruits = new String("apple, mango, orange");`
- ☐ b. `String[] arrayOfFruits= ("apple", "mango", "orange");`
- ☒ c. `String[] arrayOfFruits = {"apple", "mango", "orange"};`
- ☐ d. `String[] arrayOfFruits= ["apple", "mango", "orange"];`

Question 30

Complete

Marked out of 1.00

☐ Flag question

Say that `names` has been declared

```
String[] names = new String[10];
```

and that further statements (not shown) have put `String` references into some of the slots.

Which of the following fragments prints out the slots of the array from last to first, skipping slots that contain null?

- ☐ a.

```
for ( int j = names.length; j < names.length; j++ )  
    if ( names[j] != null )  
        System.out.println( names[j] );
```
- ☐ b.

```
for ( int j = names.length; j >= 0; j++ )  
    if ( names[j] != null )  
        System.out.println( names[j] );
```
- ☒ c.

```
for ( int j = names.length-1; j >= 0; j-- )  
    if ( names[j] != null )  
        System.out.println( names[j] );
```
- ☐ d.

```
for ( int j = 0; j < names.length; j++ )  
    if ( names[j] != null )  
        System.out.println( names[j] );
```

Question 31

Complete

Marked out of 1.00

☐ Flag question

Given the following,

```
13. String x = new String("xyz");
```

```
14. y = "abc";
```

```
15. x = x + y;
```

How many `String` objects have been created?

- ☒ a. 4
- ☐ b. 3
- ☐ c. 2
- ☐ d. 5

Question **32**

Complete

Marked out of
1.00

☐ Flag
question

What will be the result of attempting to compile and run the following code?

```
public class RefEq {  
    public static void main(String[] args) {  
        String s = "ab" + "12";  
        String t = "ab" + 12;  
        String u = new String("ab12");  
        System.out.println((s == t) + " " + (s == u));  
    }  
}
```

- ☐ a. The program will print true false when run
- ☐ b. The program will print false true when run
- ☒ c. The program will print false false when run
- ☐ d. The program will print true true when run

Question **33**

Complete

Marked out of
1.00

☐ Flag
question

Given the declaration

```
String[] names = new String[10];
```

Which of the following statements puts a reference to the String "Hello" in the last slot of the array?

- ☐ a. names[10] = "Hello";
- ☐ b. names[0] = "Hello";
- ☒ c. names[9] = "Hello";
- ☐ d. String[names.length-1] = "Hello";

Question **34**

Complete

Marked out of
1.00

☐ Flag
question

Given the following:

```
public class TestSubstring {  
    public static void main(String[] args) {  
        String str = "international";  
        str = str.substring(6, 9);  
        char b = str.charAt(2);  
        str = str + b;  
        System.out.println(str);  
    }  
}
```

What is the result? Assume the code given above is a portion of the code present in a method.

- ☐ a. atia
- ☒ b. atii
- ☐ c. atioa
- ☐ d. atiot

Question **35**

Complete

Marked out of
1.00

☐ Flag
question

Given the following,

```
11. String x = "xyz";  
12. x.toUpperCase();  
13. String y = x.replace("Y", 'y');  
14. y = y + "abc";  
15. System.out.println(y);
```

What is the result?

- ☐ a. Compilation fails
- ☒ b. xyzabc
- ☐ c. XyZabc
- ☐ d. abcXyZ