

QUESTION

Given:

```
Integer i1 = 1000;  
Integer i2 = 1000;  
if(i1 != i2) System.out.println("different objects");  
if(i1.equals(i2)) System.out.println("meaningfully equal");
```

What is the output?

- A. Compilation error
- B. different objects
- C. meaningfully equal
- D. different objects
meaningfully equal
- E. None is print

Correct Answer: D

QUESTION

Given:

```
Integer i3 = 10;  
Integer i4 = 10;  
if(i3 == i4) System.out.println("same object");  
if(i3.equals(i4)) System.out.println("meaningfully equal");
```

What is the output?

- A. Compilation error
- B. same object
- C. meaningfully equal
- D. same object
meaningfully equal
- E. None is print

Correct Answer: D

QUESTION

What output will be produced when the following code is executed?

```
Integer my_Integer = new Integer(34);  
long my_long = 34L;  
if (my_Integer.equals(my_long))  
System.out.println("equals() true");  
if (my_Integer == my_long)  
System.out.println("== true");
```

- A. Compilation error
- B. An exception is thrown
- C. equals() true
- D. == true
- E. equals() true
== true
- F. Nothing is show in the output

Correct Answer: D

QUESTION

Consider the following program:

```
class Increment {  
    public static void main(String []args) {  
        Integer i = 10;  
        Integer j = 11;  
        Integer k = ++i; // INCR  
        System.out.println("k == j is " + (k == j));  
        System.out.println("k.equals(j) is " + k.equals(j));  
    }  
}
```

Which one of the following options correctly describes the behavior of this program?

- a) When executed, this program prints
k == j is false
k.equals(j) is false
- b) When executed, this program prints
k == j is true
k.equals(j) is false
- c) When executed, this program prints
k == j is false
k.equals(j) is true
- d) When executed, this program prints
k == j is true
k.equals(j) is true
- e) When compiled, the program will result in a compiler error in the line marked with the comment INCR.

Correct Answer: D

QUESTION**Given:**

```
public class Spock {  
    public static void main(String[] args) {  
        Long tail = 2000L;  
        Long distance = 1999L;  
        Long story = 1000L;  
        if ((tail > distance) ^ ((story * 2) == tail))  
            System.out.print("1");  
        if ((distance + 1 != tail) ^ ((story * 2) == distance))  
            System.out.print("2");  
    }  
}
```

What is the result?

- A. 1
- B. 2
- C. 12
- D. Compilation fails
- E. No output is produced
- F. An exception is thrown at runtime

Correct Answer: E

QUESTION**Given:**

```
class TKO {  
    public static void main(String[] args) {  
        String s = "-";  
        Integer x = 343;  
        long L343 = 343L;  
        if(x.equals(L343)) s += ".e1 ";  
        if(x.equals(343)) s += ".e2 ";  
        Short s1 = (short)((new Short((short)343)) / (new Short((short)49)));  
        if(s1 == 7) s += "=s ";  
        if(s1 < new Integer(7+1)) s += "fly ";  
        System.out.println(s);  
    }  
}
```

Which of the following will be included in the output String s? (Choose all that apply.)

- A. .e1

- B. .e2
- C. =s
- D. fly
- E. None of the above
- F. Compilation fails
- G. An exception is thrown at runtime

Correct Answer: B, C, D

QUESTION

Given:

```
3. public class Theory {  
4.     public static void main(String[] args) {  
5.         String s1 = "abc";  
6.         String s2 = s1;  
7.         s1 += "d";  
8.         System.out.println(s1 + " " + s2 + " " + (s1==s2));  
9.  
10.        StringBuffer sb1 = new StringBuffer("abc");  
11.        StringBuffer sb2 = sb1;  
12.        sb1.append("d");  
13.        System.out.println(sb1 + " " + sb2 + " " + (sb1==sb2));  
14.    }  
15. }
```

Which are true? (Choose all that apply.)

- A. Compilation fails
- B. The first line of output is abc abc true
- C. The first line of output is abc abc false
- D. The first line of output is abcd abc false
- E. The second line of output is abcd abc false
- F. The second line of output is abcd abcd true
- G. The second line of output is abcd abcd false

Correct Answer: D, F

QUESTION

Given:

```
class Polish {  
  
    public static void main(String[] args) {  
        int x = 4;  
        StringBuffer sb = new StringBuffer("..fedcba");
```

```

        sb.delete(3,6);
        sb.insert(3, "az");
        if(sb.length() > 6) x = sb.indexOf("b");
        sb.delete((x-3), (x-2));
        System.out.println(sb);
    }
}

```

What is the result?

- A .faza
- B .fzba
- C ..azba
- D .fazba
- E ..fezba
- F Compilation fails
- G An exception is thrown

Correct Answer: C

QUESTION

Consider the following program:

```

class ArrayCompare {
    public static void main(String []args) {
        int []arr1 = {1, 2, 3, 4, 5};
        int []arr2 = {1, 2, 3, 4, 5};
        System.out.println("arr1 == arr2 is " + (arr1 == arr2));
        System.out.println("arr1.equals(arr2) is " + arr1.equals(arr2));
        System.out.println("Arrays.equals(arr1, arr2) is " +
            java.util.Arrays.equals(arr1, arr2));
    }
}

```

Which one of the following options provides the output of this program when executed?

- a) arr1 == arr2 is false
arr1.equals(arr2) is false
Arrays.equals(arr1, arr2) is true
 - b) arr1 == arr2 is true
arr1.equals(arr2) is false
Arrays.equals(arr1, arr2) is true
-

c) arr1 == arr2 is false
arr1.equals(arr2) is true
Arrays.equals(arr1, arr2) is true

d) arr1 == arr2 is true
arr1.equals(arr2) is true
Arrays.equals(arr1, arr2) is false

e) arr1 == arr2 is true
arr1.equals(arr2) is true
Arrays.equals(arr1, arr2) is true

Correct Answer: A

QUESTION

Given classes defined in two different files:

```
package util;  
public class BitUtils {  
    public static void process(byte[] b) { /* more code here */ }  
}  
1. package app;  
2.  
3. public class SomeApp {  
4.     public static void main(String[] args) {  
5.         byte[] bytes = new byte[256];  
6.         // insert code here  
7.     }  
8. }
```

What is required at line 6 in class SomeApp to use the process method of BitUtils?

- A. process(bytes);
- B. BitUtils.process(bytes);
- C. util.BitUtils.process(bytes);
- D. SomeApp cannot use methods in BitUtils.
- E. import util.BitUtils.*;
process(bytes);

Correct Answer: C

QUESTION

Given these classes in different files:

```
package xcom;
public class Useful {
    int increment(int x) {
        return ++x;
    }
}
import xcom.*; // line 1
class Needy3 {
    public static void main(String[] args) {
        xcom.Useful u = new xcom.Useful(); // line 2
        System.out.println(u.increment(5));
    }
}
```

Which statements are true? (Choose all that apply)

- A. The output is 0.
- B. The output is 5.
- C. The output is 6.
- D. Compilation fails.
- E. The code compiles if line 1 is removed.
- F. The code compiles if line 2 is changed to read
Useful u = new Useful();

Correct Answer: D

QUESTION

Given two files:

```
package xcom;
public class Stuff {
    public static final int MY_CONSTANT = 5;
    public static int doStuff(int x) {
        return (x++)*x;
    }
}
import xcom.Stuff.*;
import java.lang.System.out;
class User {
    public static void main(String[] args) {
        new User().go();
    }
}
```

```
        void go() {  
            out.println(doStuff(MY_CONSTANT));  
        }  
    }  
}
```

What is the result?

- A. 25
- B. 30
- C. 36
- D. Compilation fails
- E. An exception is thrown at runtime

Correct Answer: D

QUESTION

Given classes defined in two different files:

```
package util;  
public class BitUtils {  
    static void process(byte[] b) {}  
}  
  
01. package app;  
02. public class SomeApp {  
03.     public static void main(String[] args) {  
04.         byte[] bytes = new byte[256];  
05.         // insert code here  
06.     }  
07. }
```

What is required at line 5 in class SomeApp to use the process method of BitUtils?

- A. process(bytes);
- B. BitUtils.process(bytes);
- C. app.BitUtils.process(bytes);
- D. util.BitUtils.process(bytes);
- E. import util.BitUtils.*;
process(bytes);
- F. SomeApp cannot use the process method in BitUtils.

Correct Answer: F

QUESTION

Given the SampleClass, what is the value of currentCount for the instance of object x after the code segment had been executed?

```
SampleClass x = new SampleClass();  
SampleClass y = new SampleClass();  
x.increaseCount();
```

```
public class SampleClass {  
    private static int currentCount = 0;  
    public SampleClass() {  
        currentCount++;  
    }  
    public void increaseCount() {  
        currentCount++;  
    }  
}
```

- A. 0
- B. 1
- C. 2
- D. 3
- E. Compiler error
- F. Runtime error

Correct Answer: D

QUESTION

Given:

```
public class A{  
    private int counter = 0;  
  
    public static int getInstanceCount() {  
        return counter;  
    }  
  
    public A() {  
        counter++;  
    }  
}
```

Given this code from Class B:

- 25. A a1 = new A();
- 26. A a2 = new A();

27. A a3 = new A();
28. System.out.println(A.getInstanceCount());

What is the result?

- A. Compilation of class A fails.
- B. Line 28 prints the value 3 to System.out.
- C. Line 28 prints the value 1 to System.out.
- D. A runtime error occurs when line 25 executes.
- E. Compilation fails because of an error on line 28.

Correct Answer: A

QUESTION

Given the following code:

```
public class Counter {  
  
    public static int getCount(String[] arr) {  
        int count = 0;  
        for(String var : arr) {  
            if (var!=null) count++;  
        }  
        return count;  
    }  
  
    public static void main(String[] args) {  
  
        String[] arr = new String[4];  
        arr[1] = "C";  
        arr[2] = "";  
        arr[3] = "Java";  
        System.out.print(getCount(arr));  
  
    }  
}
```

And the commands:

```
javac Counter.java  
java Counter
```

What is the result?

- A. 2
- B. 3
- C. Compilation fails
- D. An exception is thrown

Correct Answer: B

QUESTION

Given:

```
StringBuffer b = new StringBuffer("3");  
System.out.print(5+4+b+2+1);
```

What is the result?

- A. 54321
- B. 9321
- C. 5433
- D. 933
- E. Output is similar to: 9java.lang.StringBuffer@100490121
- F. Compilation fails

Correct Answer: F

QUESTION

What will the following class print when run?

```
public class Sample {  
  
    public static void main(String[] args) {  
  
        String s1 = new String("java");  
        StringBuilder s2 = new StringBuilder("java");  
        replaceString(s1);  
        replaceStringBuilder(s2);  
        System.out.println(s1 + s2);  
    }  
  
    static void replaceString(String s) {  
        s = s.replace('j', 'l');  
    }  
  
    static void replaceStringBuilder(StringBuilder s) {  
        s.append("c");  
    }  
}
```

- A. javajava
- B. lavajava
- C. javajavac
- D. lavajavac

- E. None of these
- F. Compilation fails
- G. An exception is thrown

Correct Answer: C

QUESTION

Given the following code:

```
public class Print01 {  
  
    public static void main(String[] args) {  
  
        double price = 24.99;  
        int quantity = 2;  
        String color = "Blue";  
        //Insert code here. Line ***  
  
    }  
  
}
```

Which tow statements, inserted independently at line *, enable the program to produce the following output:**

We have 002 Blue pants that cost \$24.99

- A. `System.out.printf("We have %03d %s pants that cost $%3.2f.\n",quantity, color, price);`
- B. `System.out.printf("We have$03d$s pants that cost $$3.2f.\n",quantity, color, price);`
- C. `String out = String.format ("We have %03d %s pants that cost $%3.2f.\n",quantity, color,price); System.out.println(out);`
- D. `String out = System.out.format("We have %03d %s pants that cost $%3.2f. ",quantity, color,price); System.out.println(out);`

Correct Answer: A, C
