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```
4. Three
 5. Given the following two methods, which method call will not compile?
      public void printStormName(String... names) {
   System.out.println(Arrays.toString(names));
       public void printStormNames(String[] names) {
   System.out.println(Arrays.toString(names));
 1. printStormName("Arlene");
2. printStormName(new String[] { "Bret" });
3. printStormNames("Cindy");
 4. printStormNames(new String[] { "Don" });
6. How do you determine the number of elements in an array?
 1. buses.length
2. buses.length()
3. buses.size
 4. buses.size()
7. Which of the following create an empty two-dimensional array with
  dimensions 2×2?
 1. int[][] blue = new int[2, 2];
2. int[][] blue = new int[2], [2];
3. int[][] blue = new int[2][2];
4.int[][] blue = new int[2 x 2];
8. How many lines does the following code output?
      String[] days * new String[] { "Sunday", "Monday", "Tuesday",
    "Wednesday", "Thursday", "Friday", "Saturday" };
for (int i = 0; i < days.length; i++)
    System.out.println(days[i]);</pre>
 1. Six
3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
q. What are the names of the methods to do searching and sorting
   respectively on arrays?
 1. Arrays.binarySearch() and Arrays.linearSort()
2. Arrays.binarySearch() and Arrays.sort() \,
3. Arrays.search() and Arrays.linearSort()
4. Arrays.search() and Arrays.sort()
10. What does this code output?
       String[] nums = new String[] { "1", "9", "10" };
      Arrays.sort(nums);
System.out.println(Arrays.toString(nums));
 1. [1, 9, 10]
2.[1, 10, 9]
3. [10, 1, 9]
 4. None of the above
11. Which of the following references the first and last element in a non-
  empty array?
 1. trains[0] and trains[trains.length]
 2. trains[0] and trains[trains.length - 1]
```

```
3. trains[1] and trains[trains.length]
 4. trains[1] and trains[trains.length - 1]
12. How many of the following are legal declarations?
       String lion [] = new String[] {"lion"};
String tiger [] = new String[] {"tiger"};
String bear [] = new String[] {};
String ohMy [] = new String[0] {};
 1. None
 2. One
 3. Two
 4. Three
13. How many of the following are legal declarations?
       float[] lion = new float[];
float[] tiger = new float[1];
float[] bear = new[] float;
float[] ohMy = new[1] float;
 2. One
 3. Two
 4. Three
14. Which statement most accurately represents the relationship between
    searching and sorting with respect to the Arrays class?
 1. If the array is not sorted, calling {\tt Arrays.binarySearch()} will be
   accurate, but slower than if it were sorted.
 2. The array does not need to be sorted before calling
   Arrays.binarySearch() to get an accurate result.
 3. The array must be sorted before calling Arrays.binarySearch() to
   get an accurate result.
 4. None of the above
15. Which is not a true statement about an array?
 1. An array expands automatically when it is full.
 2. An array is allowed to contain duplicate values.
 3. An array understands the concept of ordered elements.
 4. An array uses a zero index to reference the first element.
16. \ Which \ line \ of \ code \ causes \ an \ Array Index Out Of Bounds Exception?
       // m1
// m2
 1. m1
 2. m2
 3. m3
 4. m4
17. What does the following output?
       String[] os = new String[] { "Mac", "Linux", "Windows" };
Arrays.sort(os);
System.out.println(Arrays.binarySearch(os, "Mac"));
 1. 0
 2. 1
```

- 3. 2
- 4. The output is not defined.
- 18. Which is the first line to prevent this code from compiling and $% \left(1\right) =\left(1\right) \left(1\right)$ running without error?

```
char[][] ticTacToe = new char[3,3];
```

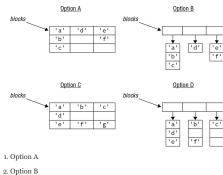
- 1. Line r1
- 2. Line r2
- 3. Line r3
- 4. None of the above
- 19. How many objects are created when running the following code?

```
Integer[] lotto = new Integer[4];
lotto[0] = new Integer(1_000_000);
lotto[1] = new Integer(999_999);
```

- 1. Two
- 2. Three
- 3. Four
- 4. Five
- 20. How many of the following are legal declarations?

```
[][] String alpha;
[] String beta;
String[][] gamma;
String[] delta[];
String epsilon[][];
```

- 1. Two
- 2. Three
- 3. Four
- 4. Five
- 21. Which of the options in the graphic best represent the blocks variable?



- 3. Option C
- 4. Option D
- 22. What happens when calling the following method with a non-null and non-empty array?

```
public static void addStationName(String[] names) {
  names[names.length] = "Times Square";
 1. It adds an element to the array the value of which is Times Square.
 2. It replaces the last element in the array with the value \operatorname{Times}\ \operatorname{Square}.
 3. It does not compile.
 4. It throws an exception.
23. How many lines does the following code output?
       String[] days = new String[] { "Sunday", "Monday", "Tuesday",
   "Wednesday", "Thursday", "Friday", "Saturday" };
for (int i = 0; i < days.ize(); i++)
   System.out.println(days[i]);</pre>
 1. Six
 2. Seven
 3. The code does not compile.
 4. The code compiles but throws an exception at runtime.
24. How many dimensions does the array reference moreBools allow?
        boolean[][][] bools, moreBools;
 1. One dimension
 2. Two dimensions
 3. Three dimensions
 4. None of the above
25. What is a possible output of the following code?
        String[] strings = new String[2];
System.out.println(strings);
 1. [null, null]
 2.[,]
 3. [Ljava.lang.String;@74a14482
 4. None of the above
26. Which is the first line to prevent this code from compiling and
    running without error?
        1. Line r1
 2. Line r2
 3. Line r3
 4. None of the above
27. What is the result of running the following as java Copier?
        package duplicate;
        package duplicate;
public class Copier {
  public static void main(String... original) {
    String... copy = original;
    System.out.println(copy.length + " " + copy[0]);
}
 1. 0
 2. 0 followed by an exception
```

1 followed by an exception
 The code does not compile.

28. What is the result of running the following program?

- 1. X
- 2. The code does not compile.
- 3. The code compiles but throws a ${\tt NullPointerException}$ at runtime.
- 4. The code compiles but throws a different exception at runtime.
- 29. What does the following output?

```
String[] os = new String[] { "Mac", "Linux", "Windows" };
Arrays.sort(os);
System.out.println(Arrays.binarySearch(os, "RedHat"));
```

- 1. -1
- 2, -2
- 3. -3
- 4. The output is not defined.
- 30. What is the output of the following when run as java FirstName Wolfie?

```
public class FirstName {
  public static void main(String... names) {
    System.out.println(names[0]);
  }
}
```

- 1. FirstName
- 2. Wolfie
- ${\it 3.} \ {\it The code throws an ArrayIndexOutOfBoundsException}.$
- 4. The code throws a NullPointerException.
- 31. What is the output of the following when run as java Count 1 2?

```
public class Count {
    public static void main(String target[]) {
        System.out.println(target.length);
    }
}
```

- 1. 0 2. 1
- 3. 2
- 4. The code does not compile.
- 32. What is the output of the following when run as java unix.EchoFirst seed flower?

```
package unix;
import java.util.*;
public class EchoFirst {
  public static void main(String[] args) {
    String one = args[0];
    Arrays.sort(args);
    int result = Arrays.binarySearch(args, one);
    System.out.println(result);
  }
}
```

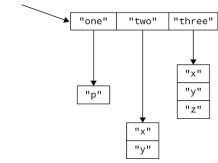
- 1. 0
- 2. 1
- 3. The code does not compile.

- 4. The code compiles but throws an exception at runtime.
- 33. Which of these four array declarations produces a different array than the others?

```
1.int[][] nums = new int[2][1];
2.int[] nums[] = new int[2][1];
3.int[] nums[] = new int[][] { { 0 }, { 0 } };
4.int[] nums[] = new int[][] { { 0, 0 } };
```

34. How do you access the array element with the value of "z"?

dimensions



- 1. dimensions["three"][2]
- 2. dimensions["three"][3]
- 3. dimensions[2][2]
- 4. dimensions[3][3]
- 35. How many lines does the following code output?

```
String[] days = new String[] { "Sunday", "Monday", "Tuesday",
    "Wednesday", "Thursday", "Friday", "Saturday" };
for (int i = 1; i <= days.length; !++)
    System.out.println(days[i]);</pre>
```

- 1. Six
- 2. Seven
- 3. The code does not compile.
- ${\bf 4}.$ The code compiles but throws an exception at runtime.
- 36. What is the output of the following when run as java FirstName Wolfie?

```
public class FirstName {
  public static void main(String... names) {
    System.out.println(names[1]);
  }
}
```

- 1. FirstName
- 2. Wolfie
- 3. The code throws an ${\tt ArrayIndexOutOfBoundsException}.$
- 4. The code throws a NullPointerException.
- 37. Which is the first line to prevent this code from compiling and running without error?

- 1. Line r1
- 2. Line r2
- 3. Line r3

4. None of the above

 $38.\,What$ is the output of the following when run as java Count 1 2?

```
public class Count {
  public static void main(String target[]) {
     System.out.println(target.length());
}
1. 0
```

- 2. 1
- 3. 2
- 4. The code does not compile.
- 39. How many dimensions does the array reference moreBools allow?

```
boolean[][] bools[], moreBools;
```

- 1. One dimension
- 2. Two dimensions
- 3. Three dimensions
- 4. None of the above
- 40. What is the result of the following when called as java counting.Binary?

```
package counting;
import java.util.*;
public class Binary {
  public static void main(String... args) {
      Arrays.sort(args);
System.out.println(Arrays.toString(args));
```

- 1. null
- 2. []
- 3. The code does not compile.
- 4. The code compiles but throws an exception at runtime.
- 41. What does the following output?

```
String[] os = new String[] { "Mac", "Linux", "Windows" };
System.out.println(Arrays.binarySearch(os, "Linux"));
```

- 2. 1
- 3. 2
- 4. The output is not defined.
- 42. What is the result of running the following program?

```
1: package fun;
2: public class Sudoku {
3: static int[][] game;
                    public static void main(String[] args) {
   game[3][3] = 6;
   Object[] obj = game;
   game(3][3] = "X";
   System.out.println(game[3][3]);
11: }
```

- 1. X
- 2. The code does not compile.
- 3. The code compiles but throws a NullPointerException at runtime.
- 4. The code compiles but throws a different exception at runtime.

43. What is the output of the following?

```
String[][] listing = new String[][] { { "Book" }, { "Game", "29.99" System.out.println(listing.length + " " + listing[@].length);
```

- 1.21
- 2. 2 2
- 3. The code does not compile.
- 4. The code compiles but throws an exception at runtime.
- 44. What is the output of the following when run as java FirstName?

```
public class FirstName {
  public static void main(String[] names) {
    System.out.println(names[@]);
  }
}
```

- 1. FirstName
- 2. The code does not compile.
- ${\it 3.}\ {\it The\ code\ throws\ an\ ArrayIndexOutOfBoundsException}.$
- 4. The code throws a NullPointerException.
- 45. How many lines does the following code output?

```
String[] days = new String[] { "Sunday", "Monday", "Tuesday", "Wednesday", "Thursday", "Friday", "Saturday" }; for (int i = 1; i < days.length; i++) System.out.println(days[i]);
```

- 1. Six
- 2. Seven
- 3. The code does not compile.
- ${\bf 4}.$ The code compiles but throws an exception at runtime.
- 46. What is the output of the following when run as java Count "1 2"?

```
public class Count {
  public static void main(String target[]) {
    System.out.println(target.length);
  }
}
```

- 1. 0
- 2, 1
- 3. 2
- 4. The code does not compile.
- 47. What does the following output?

```
String[] os = new String[] { "Linux", "Mac", "Windows" };
System.out.println(Arrays.binarySearch(os, "Linux"));
```

- 1. 0
- 2, 1
- 3. 2
- 4. The output is not defined.
- 48. Which of the following statements are true?
- You can always change a method signature from call(String[] arg) to call(String... arg) without causing a compiler error in the calling code.
- You can always change a method signature from call(String... arg) to call(String[] arg) without causing a compiler error in the existing code.

1. I

```
2. II
 3. Both I and II
 4. Neither I nor II
49. Which of these four array references can point to an array that is
 1. int[][][][] nums1a, nums1b;
 2.int[][][] nums2a[], nums2b;
 3.int[][] nums3a[][], nums3b[][];
 4.int[] nums4a[][][], numbs4b[][][];
50. What is the output of the following when run as java
   unix.EchoFirst seed flower?
        package unix;
import java.util.*;
public class EchoFirst {
           public static void main(String[] args) {
              Dark State VolumeIn(string[] args) {
Arrays.sort(args);
String result = Arrays.binarySearch(args, args[0]);
System.out.println(result);
 1. 0
 2. 1
 3. \ {\rm The\ code\ does\ not\ compile}.
 4. The code compiles but throws an exception at runtime.
```



PREV
Chapter 3 Using Operators and Decision Constructs

NEXT Chapter 5 Using Loop Constructs