- 1. What symbol is used for a varargs method parameter?
- **A.** . .
- B. . . .
- C. --
- D. ---

2. Fill in the blank in the following code to get the first element from the varargs

parameter.

C. f[1]

```
public void toss (Frisbee... f) {
Frisbee first = _____;
A. f
B. f[0]
```

D. None of the above

3. Which of the following are primitives?

int[] lowercase = new int[0]; Integer[] uppercase = new Integer[0];

- A. Only lowercase
- B. Only uppercase
- C. Bother lowercase and uppercase
- D. Neither lowercase nor uppercase

[]double lion; double[] tiger; double bear[];

- A. None
- B. One
- C. Two
- D. 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));
}

A. printStormName("Arlene");
B. printStormName(new String[] { "Bret" });
C. printStormNames("Cindy");
D. printStormNames(new String[] { "Don" });
```

- 6. How do you determine the number of elements in an array?
- A. buses. length
- B. buses. length()
- C. buses. size
- D. buses. size()

7. Which of the following create an empty two-dimensional array with dimensions 2×2?

```
A. int[][] blue = new int[2, 2];
B. int[][] blue = new int[2], [2];
C. int[][] blue = new int[2][2];
D. 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]);
```

- A. Six
- B. Seven
- C. The code does not compile.
- D. The code compiles but throws an exception at runtime.

9. What are the names of the methods to do searching and sorting respectively on arrays?

A. Arrays. binarySearch() and Arrays. linearSort()

B. Arrays. binarySearch() and Arrays. sort()

C. Arrays. search() and Arrays. linearSort()

D. 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));
```

A. [1, 9, 10]

B. [1, 10, 9]

C. [10, 1, 9]

D. None of the above

11. Which of the following references the first and last element in a non-empty array?

```
A. trains[0] and trains[trains.length]
```

- **B.** trains[0] and trains[trains.length 1]
- C. trains[1] and trains[trains.length]
- $D. \ {\it trains[1]} \ and \ {\it trains[trains.length-1]}$

```
String lion [] = new String[] {"lion"};
String tiger [] = new String[1] {"tiger"};
String bear [] = new String[] {};
String ohMy [] = new String[0] {};
```

- A. None
- B. One
- C. Two
- D. Three

```
float[] lion = new float[];
float[] tiger = new float[1];
float[] bear = new[] float;
float[] ohMy = new[1] float;
```

- A. None
- B. One
- C. Two
- D. Three

14. Which statement most accurately represents the relationship between searching and

sorting with respect to the Arrays class?

A. If the array is not sorted, calling Arrays. binarySearch() will be accurate, but

slower than if it were sorted.

B. The array does not need to be sorted before calling

Arrays.binarySearch() to get

an accurate result.

C. The array must be sorted before calling Arrays. binarySearch() to get an accurate

result.

D. None of the above

- 15. Which is not a true statement about an array?
- A. An array expands automatically when it is full.
- B. An array is allowed to contain duplicate values.
- C. An array understands the concept of ordered elements.
- D. An array uses a zero index to reference the first element.

D. The output is not defined.

C. 2

16. Which line of code causes an ArrayIndexOutOfBoundsException? String[][] matrix = new String[1][2]; matrix[0][0] = "Don't think you are, know you are."; // m1 matrix[0][1] = "I'm trying to free your mind Neo"; // m2matrix[1][0] = "Is all around you"; // m3matrix[1][1] = "Why oh why didn't I take the BLUE pill?"; // m4 \mathbf{A} . m1 **B.** m2 **C.** m3 **D.** m4 17. What does the following output? String[] os = new String[] { "Mac", "Linux", "Windows" }; Arrays. sort (os); System.out.println(Arrays.binarySearch(os, "Mac")); **A.** 0 **B.** 1

D. None of the above

18. Which is the first line to prevent this code from compiling and running without error?

```
char[][] ticTacToe = new char[3,3]; // r1
ticTacToe[1][3] = 'X'; // r2
ticTacToe[2][2] = 'X';
ticTacToe[3][1] = 'X';
System.out.println(ticTacToe.length + " in a row!"); // r3
A. Line r1
B. Line r2
C. Line r3
```

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);
```

- A. Two
- B. Three
- C. Four
- D. Five

[][] String alpha; [] String beta;

String[][] gamma;

String[] delta[];

String epsilon[][];

A. Two

B. Three

C. Four

D. Five