Review Questions

1. When you place objects in order beginning with the object with the highest value, you are sorting in \_\_\_\_\_\_\_\_\_\_\_\_\_ order.

a. acquiescing

b. ascending

c. demeaning

d. descending

2. Using a bubble sort involves \_\_\_\_\_\_\_\_\_\_\_\_\_.

a. comparing parallel arrays

b. comparing each array element to the average

c. comparing each array element to the adjacent array element

d. swapping every array element with its adjacent element

3. When you use a bubble sort to perform an ascending sort, after the first pass through an array, the largest value is \_\_\_\_\_.

a. at the beginning of the list

b. in the middle of the list

c. at the end of the list

d. It is impossible to determine the answer without more information.

4. When you use a bubble sort to perform an ascending sort, after the first pass through an array, the smallest value is \_\_\_\_\_.

a. at the beginning of the list

b. in the middle of the list

c. at the end of the list

d. It is impossible to determine the answer without more information.

5. When array elements are objects, you usually want to sort based on a particular \_\_\_\_\_\_\_\_\_\_\_\_\_ of the object.

a. field

b. method

c. name

d. type

6. The following defines a \_\_\_\_\_\_\_\_\_\_\_\_\_ array:

int[][]nums={{1, 2}, {3, 4}, {5, 6}};

a. one-dimensional

b. two-dimensional

c. three-dimensional

d. six-dimensional

7. How many rows are contained in the following array?

double[][] prices = {{2.56, 3.57, 4.58, 5.59},

{12.35, 13.35, 14.35, 15.00}};

a. 1

b. 2

c. 4

d. 8

8. How many columns are contained in the following array?

double[][] prices = {{2.56, 3.57, 4.58, 5.59},

{12.35, 13.35, 14.35, 15.00}};

a. 1

b. 2

c. 4

d. 8

9. In the following array, what is the value of code[2][1]?

char[][] code = {{ 'A ', 'D ', 'M '},

{ 'P ', 'R ', 'S '};

{ 'U ', 'V ', 'Z '}};

a. 'P'

b. 'R'

c. 'U'

d. 'V'

10. In the following array, what is the value of address[1][1]?

String address = {{ "123 Oak ", "345 Elm "};

{ "87 Maple ", "901 Linden "}};

a. "123 Oak "

b. "345 Elm "

c. "87 Maple "

d. "901 Linden "

11. In the following array, what is the value of fees.length?

double[][] fees = {{3.00, 3.50, 4.00, 5.00},

{6.35, 7.35, 8.35, 9.00}};

a. 2

b. 4

c. 8

d. None of the above

12. In the following array, what is the value of fees[1].length?

double[][] fees = {{3.00, 3.50, 4.00, 5.00},

{6.35, 7.35, 8.35, 9.00}};

a. 2

b. 4

c. 8

d. None of the above

13. You place \_\_\_\_ after the data type in the parameter list of a method that receives a two-dimensional array.

a. a pair of empty brackets

b. two pairs of empty brackets

c. a pair of brackets that contain the number of rows followed by a pair of empty brackets

d. a pair of empty brackets followed by brackets that contain the number of columns

14. A \_\_\_\_ array has rows of different lengths.

a. ragged

b. jagged

c. haggard

d. tattered

15. If the value of credits[0].length is not equal to credits[1].length, you know credits is \_\_\_\_\_.

a. a three-dimensional array

b. an uninitialized array

c. a partially populated array

d. a ragged array

16. Which of the following is true if a successfully running program contains the following statement:

Arrays.fill(tax, 10);

a. tax is a two-dimensional array.

b. fill() is a nonstatic method.

c. tax is an array with 10 elements.

d. none of the above

17. Which of the following is a requirement when you use a binary search method with an array?

a. The array must be numeric.

b. The array must have been sorted in ascending order.

c. The array must have at least three elements.

d. none of the above

18. The chief advantage to using the ArrayList class instead of the Arrays class is that an ArrayList \_\_\_\_\_.

a. can be much larger

b. is easier to search

c. is dynamically resizable

d. can be used as an argument to a static method

19. The chief disadvantage to using the ArrayList class instead of the Arrays class is that an ArrayList \_\_\_\_\_.

a. cannot be sorted

b. cannot store primitive data types

c. cannot be accessed using subscripts

d. All of the above are disadvantages to using an ArrayList.

20. An advantage to using an enumerated data type is \_\_\_\_\_.

a. errors are reduced because only a limited set of values can be used with the type

b. time is saved because programs with enumerated types compile faster

c. coding time is reduced because enumerated types are created automatically by the compiler

d. All of the above are true.