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Date: 02/06/2020 Class: Computer Programming 2

ID: 020022

Score: 38 / 42 (90.48%)

Computer Programming Chapter 7 Test

TRUE/FALSE



1. True/False: C++ limits the number of array dimensions to two.

Points: 1 / 1



2. True/False: In C++ 11, the range-based for loop is best used in situations where you need the element subscript for some purpose.

Points: 1 / 1



3. True/False: Although two-dimensional arrays are a novel idea, there is no known way to pass one to a function.

Points: 1 / 1



4. True/False: Each individual element of an array can be accessed by the array name and an element number, called a subscript.

Points: 1 / 1



5. True/False: If an array is partially initialized, the uninitialized elements will be set to zero.

Points: 1 / 1



6. True/False: A vector object automatically expands in size to accommodate the items stored in it.

Points: 1 / 1

MULTIPLE CHOICE



- 7. Unlike regular variables, these can hold multiple values.
 - a. constants
 - b. named constants
 - c. arrays
 - d. floating-point variables
 - e. None of these

Points: 1 / 1



8. The individual values contained in array are known as _____.

int grades[] = $\{100, 90, 99, 80\};$

- a. parts
- b. elements
- c. numbers
- d. constants
- e. None of these

Points: 1 / 1



- 9. Which of the following is a valid C++ array definition?
 - a. int array[0];
 - b. float \$payments[10];
 - c. void numbers[5];
 - d. int array[10];
 - e. None of these

Points: 1 / 1



10. The statement:

- shows an example of: a. default arguments
- b. an illegal array declaration
- c. an illegal array initialization
- d. implicit array sizing
- e. None of these

Points: 1 / 1

Points:

1/1

1,001100		
<u>©</u> <u>c</u>	11.	By using the same you can build relationships between data stored in two or more arrays. a. array name b. data c. subscript d. arguments e. None of these
		Points: 1 / 1
<u>A</u>	12.	The name of an array stores the of the first array element. a. memory address b. value c. element number d. data type e. None of these
		Points: 1 / 1
<u>B</u>	13.	A two-dimensional array is like put together. a. an array and a function b. several identical arrays c. two functions d. two arrays of different types e. None of these
		Points: 1 / 1
<u>A</u>	14.	A two-dimensional array can be viewed as and a. rows, columns b. arguments, parameters c. increments, decrements d. All of these e. None of these
		Points: 1 / 1
<u>A</u>	15.	If you leave out the size declarator in an array definition: a. you must furnish an initialization list b. you are not required to initialize the array elements c. all array elements default to zero values d. your array will contain no elements



- 16. Which of the following is a valid C++ array definition?
 - a. int scores[0];
 - b. float \$payments[10];
 - c. int readings[4.5];
 - d. int scores [10];
 - e. None of these

Points:

1/1



- 17. An element of a two-dimensional array is referred to by _____ followed by
 - a. the array name, the column number of element
 - b. the row subscript of the element, the column subscript of the element
 - c. a comma, a semicolon
 - d. the row subscript of element, the array name
 - e. None of these

Points:

1/1



- 18. When writing functions that accept multi-dimensional arrays as arguments, _____ must be explicitly stated in the parameter list.
 - a. all dimensions
 - b. all but the first dimension

1/1

- c. the size declarator of the first dimension
- d. all element values
- e. None of these

Points:



- 19. An array can store a group of values, but the values must be:
 - a. the same data type
 - b. each of a different data type
 - c. constants
 - d. integers
 - e. None of these

Points:

1/1



X) B

20. An array's size declarator must be a _____ with a value greater than _____.

- a. number, one
- b. number, zero
- c. constant integer expression, zero
- d. variable, -1
- e. None of these

0/1**Points:**



21. Subscript numbering in C++____.

- a. can be set at runtime
- b. can begin with a programmer-defined value
- c. varies from program to program
- d. begins with zero
- e. None of these

Points: 1/1



22. Arrays may be _____ at the time they are _____.

- a. resized, executed
- b. re-scoped, deleted
- c. initialized, declared
- d. pre-compiled, typecast
- e. None of these

Points: 1/1



23. Given the following declaration, where is the value 77 stored in the scores array?

int scores[] =
$$\{83, 62, 77, 97\}$$
;

a. scores[0]

c. scores[2]

b. scores[1]

d. scores[4]

Points: 1/1



24. An array can easily be stepped through by using a _____.

- a. for loop
- b. reference variable
- c. named constant
- d. null value
- e. None of these

Points: 1/1

25.	The range-based for loop, in C++ 11, is designed to work with a built-in variable
	known as the a. counter variable b. i variable c. iterator d. range variable e. None of these
	Points: 0 / 1
26.	To assign the contents of one array to another, you must use a. the assignment operator with the array names b. the equality operator with the array names c. a loop to assign the elements of one array to the other array d. Any of these e. None of these
	Points: 1 / 1
27.	To pass an array as an argument to a function, pass the of the array. a. contents b. size, expressed as an integer c. name d. value of the first element e. None of these
	Points: 1 / 1
28.	A two-dimensional array can have elements of data type(s). a. one b. two c. four d. Any of these e. None of these
	Points: 1 / 1
29.	A two-dimensional array of characters can contain a. strings of the same length b. strings of different lengths c. uninitialized elements d. All of these e. None of these Points: 1/1
	27.



Α

30. A(n) _____ can be used to specify the starting values of an array.

- a. initialization list
- b. array name
- c. subscript
- d. element
- e. None of these



1/1 **Points:**

- 31. The ______ is automatically appended to a character array when it is initialized with a string constant.
 - a. array name
 - b. number of elements
 - c. value of the first element
 - d. null terminator
 - e. None of these

Points: 1/1



32. An array of string objects that will hold 5 names would be declared using which statement?

- a. string names[5];
- b. string names(5);
- c. string names5;
- d. String[5] names;
- e. None of these will work.





- 33. It is ______ to pass an argument to a function that contains an individual array element, such as numbers [3].
 - a. illegal in C++
 - b. legal in C++
 - c. not recommended by the ANSI committee
 - d. not good programming practice
 - e. None of these

Points: 1/1



34. How many elements does the following array have?

int bugs[1000];

1000

c. 1001

b. 999

d. Cannot tell from the code

Points: 1/1 a.



35. What will the following code display?

int numbers[] = $\{99, 87, 66, 55, 101\}$; cout << numbers[3] << endl;</pre> 55 c. 101 b. 66 d. 87

1/1 **Points:**



36. What will the following code do?

```
const int SIZE = 5;
double x[SIZE];
for (int i = 2; i \leftarrow SIZE; i++)
    x[i] = 0.0;
```

- a. Each element in the array is initialized to 0.0
- b. Each element in the array, except the first, is initialized to 0.0
- c. Each element in the array, except the first and the last, is initialized to 0.0
- d. An error will occur when the code runs

Points: 0/1



37. Which statement correctly uses C++ 11 to initialize a vector of ints named n with the values 10 and 20?

```
a. vector n < int > (10, 20);
                               c. vector<int> n { 10, 20 };
b. vector<int> n = \{10, 20\}; d. int vector n (\{10\},
                                   {20};
```

Points: 1/1



38. What does the following statement do?

```
vector<int> v(10);
```

- a. It creates a vector object and initializes all of its elements to the value 10.
- b. It creates a vector object with a starting size of 10.
- c. It creates a vector object and initializes the first element with the value 10.
- d. It creates a vector object that can store only values of 10 or less.

Points: 1/1 <u>O</u> c

39. What will the following C++ 11 code display?

vector<int> numbers { 3, 5 };

for (int val : numbers)
 cout << val << endl;</pre>

- a. 5
- 5
- 5
- b. 3
 - 3
 - 3
 - 3
 - 3
- c. 3
- 5

d. Nothing. This code has an error.

Points: 1 / 1



40. This vector function is used to insert an item into a vector.

a. insert_item

c. store

b. add_item

d. push_back

Points: 1 / 1



41. This vector function removes an item from a vector.

a. remove item

c. erase

b. delete_item

d. pop_back

Points: 1 / 1



42. This vector function returns true if the vector has no elements.

a. has_no_elements

c. empty

b. null size

d. is_empty

Points: 0 / 1