Capitulo 7

This activity contains 26 questions.

1. Section 7.2 Arrays

7.2 Q1: An array is not:

- Made up of different data types.
- Subscripted by integers.
- Declared using braces, [].
- A consecutive group of memory locations.
- 7.2 Q2: Assuming that int a has a value of 3 and that integer array b has 7 elements, what is the correct way to assign the value of the third element plus 3, to the fifth element of the array:
 - \bigcap b[a+1] = b[a] + 3;.
 - \bigcap b[a] + 1 = b[a + 3];.
 - \bigcap b[a+1] = b[a-1] + 3;.
 - b[a+2]=b[a]+3;
- 3. 7.2 Q3: Which of the following is not true?
 - The last element of an array has position number one less than the array size.
 - The position number contained within square brackets is called a subscript.
 - The first element of an array is the zeroth.
 - A subscript cannot be an expression.
- 4. Section 7.3 Declaring Arrays
 - 7.3 Q1: Which statement would be used to declare a 10-element integer array c?
 - \bigcirc c = int[10];.
 - int c[10];.
 - int array c[10];.
 - \bigcirc array c = int[10];.

5.	Section 7.4 Function Definitions with Multiple Parameters
	7.4 Q1: Which of the following is not a correct way to initialize an array?
	 d. int n[5] = { 9, 1, 9 };. int n[5] = { 7 };. int n[] = { 0, 7, 0, 3, 8, 2 };.
	int $n[5] = \{0, 7, 0, 3, 8, 2\};$

6.	7.4	Q2: Constant variables:
	0	Can be used to specify array sizes, but this makes programs harder to understand.
	0	Can be used to specify array sizes, thereby making programs more scalable.
	0	Can be assigned values in executable statements.
	0	Do not have to be initialized when they are declared.

8.	7.4 Q4: Strings represented as character arrays cannot:
	Grow or shrink dynamically.
	Be initialized using string literals.
	d. Be used with cout and cin.
	Be initialized with initializer lists.

	<pre>char string1[] = "test";.</pre>
	<pre>char string1[] = { 't', 'e', 's', 't' };.</pre>
10.	Section 7.5 Passing Arrays to Functions
	7.5 Q1: Unless otherwise specified, entire arrays are passed and individual array elements are passed
	By reference, by value.
	By value, by reference.
	By reference, by reference.
	By value, by value.
11.	7.5 Q2: Which of the following is false about a function to which an array is being passed?
	It is being passed the address of the first element in the array.
	It is able to modify the values stored in the array.
	It knows the size of the array that is being passed.
	The array name is used as an argument in the function call.
12.	7.5 Q3: To prevent modification of array values passed to a function:
	The array parameter can be preceded by the const qualifier.
	The array must be passed by reference.
	A copy of the array must be made inside the function.
	The array must be declared static in the function.
13.	Section 7.6 Case Study: Class GradeBook: Using an Array to Store Grades
	7.6 Q1: In order to calculate the of an array of values, the array values must be summed. O Minimum.
	O Distribution.
	O Average.
	O Maximum.

14.	Section 7.7 Searching Arrays with Linear Search
	 7.7 Q1: Linear search can be used on: Any of the above. Integer arrays. Unsorted arrays. Sorted arrays.
15.	7.7 Q2: Linear search is highly inefficient compared to binary search
	when dealing with:
	Large, unsorted arrays.
	Small, unsorted arrays.
	Large, sorted arrays.Small, sorted arrays.
16.	Section 7.8 Sorting Arrays with Insertion Sort 7.8 Q1: Which statement about insertion sort is true? The algorithm is very simple compared to other sorting procedures.
	A maximum of n comparisons are needed to sort the array, where n is the number of elements.
	No temporary variables are needed.
	Performance is maximized.
17.	7.8 Q2: At the ith iteration of the insertion sort:
	The last i elements of the array are sorted.
	The ith element of the array is currently empty.
	The first i elements of the array are sorted.
	The ith element of the array is in its final position.

18. Section 7.9 Multidimensional Arrays

7.9 Q1: A double subscripted array element declared as a[3][5] has how many elements?

19.

Exercícios de múltipla escolha (em Inglês)
O 13.
O d. 8.
10.15.
7.9 Q2: Given the following declaration, what is the value of b[1][0]?
int b[2][2] = { { 1 }, { 3 , 4 } };
O 1.
This is not a valid declaration.
O 3.
O 0.
7.9 Q3: Which of the following does not declare a 2-by-2 array and set all four of its elements to 0?

ing does not declare a 2-by-2 array and to 0?

```
int b[ 2 ][ 2 ];
for ( int i = 0; i < 2; i++ )
   for ( int j = 0; j < 2; j++ )
     b[i][j] = 0;.
```

- int b [2][2]; b[0][0] = b[0][1] = b[1][0] = b[1][1] = 0;
- \bigcap int b[2][2] = {0};.
- All of the above initialize all of their elements to 0.

Section 7.10 Case Study: Class GradeBook Using a Two-Dimensional Array

> 7.10 Q1: In a typical nested for loop structure used to process a two-dimensional array, following the end of the each execution of the inner for loop:

- The outer for loop increments its counter variable.
- The outer for loop initializes its counter variable.
- The inner for loop increments its counter variable.
- The inner for loop initializes its counter variable.

22.	Section 7.11 Introduction to C++ Standard Library Class Template vector
	7.11 Q1: Which of the following is not true of class template vector?
	 A vector object can be initialized with a copy of another vector by invoking the copy constructor.
	A vector can be assigned to another vector by using the assignment operator.
	A vector can only store data type int.
	The size of a vector can be changed after it is declared.
23.	7.11 Q2: Using square brackets ([]) to retrieve vector elements perform bounds checking; using member function at to retrieve vector elements perform bounds checking.
	Does not, does not.
	O Does, does not.
	O Does not, does.
	O Does, does.
24.	Section 7.12 (Optional) Software Engineering Case Study: Collaboration Among Objects in the ATM System
	7.12 Q1: In a UML communication diagram, the first message passed during the processing of message 1 is called:
	Message 1.1.
	111. Pressage 1.1.
	Message 0.
	Message 0.
	<pre>Message 0. Message 1-1.</pre>
	<pre>Message 0. Message 1-1.</pre>
25.	<pre>Message 0. Message 1-1. Message 2. 7.12 Q2: A message between two objects in a UML sequence diagram is represented by:</pre>
25.	 Message 0. Message 1-1. Message 2. 7.12 Q2: A message between two objects in a UML sequence diagram is represented by: A dashed line with a filled arrowhead.
25.	 Message 0. Message 1-1. Message 2. 7.12 Q2: A message between two objects in a UML sequence diagram is represented by: A dashed line with a filled arrowhead. A dashed line with a stick arrowhead.
25.	 Message 0. Message 1-1. Message 2. 7.12 Q2: A message between two objects in a UML sequence diagram is represented by: A dashed line with a filled arrowhead.



7.12 Q3: An activation, represented by a thin vertical rectangle, on an object's lifeline indicates that:

\cap	The ob	iect has	terminated	execution.
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The object is instantiated in memory.

The object is waiting for another object to return control.

The object is executing.

Clear Answers / Start Over

Submit Answers for Grading

Answer choices in this exercise appear in a different order each time the page is loaded.



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