Home 📂 Exercícios de múltipla escolha (em Inglês) 📂 Capitulo 8

## **Capitulo 8**

This activity contains 32 questions.

1.	Section 8.2 Pointer Variable Declarations and Initialization
	8.2 Q1: Pointers cannot be used to:
	Reference values directly.
	Manipulate dynamic data structures.
	Contain memory addresses.
	Pass an argument by reference.
2.	8.2 Q2: Pointers may be assigned to which of the following?
	Any integer values.
	O NULL.
	An address.
	Both (b) and (c).
3.	8.2 Q3: What does the following declaration declare?
	int *countPtr, count;
	Two int variables.
	Two pointers to ints.
	One pointer to an int and one int variable.
	The declaration is invalid.
4.	Section 8.3 Pointer Operators
	8.3 Q1: The & operator can be applied to:
	oconstants.
	rvalues.
	Ivalues.
	O string literals

5.	8.3 Q2: All of the following could cause a fatal execution-time error except:
	Dereferencing a pointer that has not been initialized properly.
	Dereferencing a pointer that has not been assigned to point to a specific address.
	Dereferencing a variable that is not a pointer.
	Dereferencing a null pointer.
6.	8.3 Q3: Three of the following expressions have the same value. Which of the following expressions has a value different from the others'?
	○ *Ptr.
	O Ptr.
	○ &* <i>Ptr</i> .
	○ *& <i>Ptr</i> .
7.	Section 8.4 Passing Arguments to Functions by Reference with Pointers
	8.4 Q1: Which of the following is not a valid way to pass arguments to a function in $C++?$
	O By value.
	By value with pointer arguments.
	By reference with reference arguments.
	By reference with pointer arguments.
8.	8.4 Q2: When a compiler encounters a function parameter for a single-subscripted array of the form int a[], it converts the parameter to:
	int * a.
	No conversion is necessary.
	int a.
	int &a.

9. Section 8.5 Using const with Pointers

8.5 Q1: A function that modifies an array by using pointer arithmetic such as ++ptr to process every value should have a parameter that is:

	A constant pointer to nonconstant data.	
	A nonconstant pointer to constant data.	
	A constant pointer to constant data.	
	A nonconstant pointer to nonconstant data.	
10.	8.5 Q2: A function that prints a string by using pointer arithmetic such as ++ptr to output each character should have a parameter that is:	
	A constant pointer to nonconstant data.	
	A nonconstant pointer to nonconstant data.	
	A constant pointer to constant data.	
	A nonconstant pointer to constant data.	
(11)	8.5 Q3: An array name is:	
11.	6.5 Q3. All array hame is.	
	A constant pointer to constant data.	
	A constant pointer to nonconstant data.	
	A nonconstant pointer to constant data.	
	A nonconstant pointer to nonconstant data.	
12.	8.5 Q4: What method should be used to pass an array to a function that does not modify the array and only looks at it using array subscript notation:	
	A constant pointer to constant data.	
	A nonconstant pointer to constant data.	
	A constant pointer to nonconstant data.	
	A nonconstant pointer to nonconstant data.	
13.	Section 8.6 Selection Sort Using Pass-by-Reference	
	8.6 Q1: After the ith iteration of the selection sort:	
	None of the above.	
	The smallest i items of the array will be sorted into decreasing order in the first i elements of the array.	
	The largest i items of the array will be sorted into decreasing order in the last i elements of the array.	

	The smallest i items of the array will be sorted into increasing order in the first i elements of the array.
14.	<ul> <li>8.6 Q2: To follow the principle of least privilege, the selectionSort function should receive the array to be sorted as:</li> <li>A nonconstant pointer to constant data.</li> <li>A constant pointer to constant data.</li> <li>A constant pointer to nonconstant data.</li> <li>A nonconstant pointer to nonconstant data.</li> </ul>
15.	Section 8.7 sizeof Operators  8.7 Q1: sizeof:  Returns the total number of elements in an array.  Is a binary operator.  Usually returns a double.  Returns the total number of bytes in a variable.
16.	<pre>8.7 Q2: Which of the following gives the number of elements in the int array r[]?           sizeof(*r).           sizeofr.           sizeof(*r)/sizeof(int).           sizeofr/sizeof(int).</pre>
17.	Section 8.8 Pointer Expressions and Pointer Arithmetic  8.8 Q1: Which of the following can have a pointer as an operand?    *=.

8.8 Q2: Given that k is an integer array starting at location 2000, kPtr is a pointer to k and each integer is stored in 4 bytes of memory, what location does kPtr + 3 point to?

	O 2012.
	O 2024.
	O 2003.
	O 2006.
10	8.8 Q3: A pointer can not be assigned to:
19.	Another pointer of the same type without using the cast operator.
	Any other pointer by using the cast operator.
	<ul> <li>A pointer to void without using the cast operator.</li> </ul>
	<ul> <li>A pointer of a type other than its own type and void without using the cast operator.</li> </ul>
20.	8.8 Q4: Comparing pointers and performing pointer arithmetic on them is meaningless unless:
	They point to elements of the same array.
	You are trying to compare and perform pointer arithmetic on the values to which they point.
	They point to arrays of equal size.
	They point to arrays of the same type.
(21)	Section 8.9 Relationship Between Pointers and Arrays
21.	
	8.9 Q1: Assuming that t is an array and tPtr is a pointer to that array, which expression refers to the address of the fourth element?
	&t[ 3 ].
	$^*$ ( $tPtr + 3$ ).
	$\bigcirc *(t+3).$
	O tPtr[ 3 ].
22.	8.9 Q2: Consider the following function:
	<pre>void reverse( char * string1, const char * string2 ) {</pre>

What method does the function use to refer to array elements?

- Pointer subscript notation.
- Array subscript notation.
- Pointer/offset notation where the pointer is actually the name of the array.
- Pointer/offset notation.
- Section 8.10 Arrays of Pointers
  - 8.10 Q1: A string array:
    - Is always less memory efficient than an equivalent double-subscripted array.
    - Can only provide access to strings of a certain length.
    - Stores an actual string in each of its elements.
    - Is actually an array of pointers.
- 8.10 Q2: A string array is commonly used for:
  - Storing an extremely long string.
  - Command-line arguments.
  - Storing multiple copies of the same string.
  - Displaying floating-point numbers to the screen.
- 25. Section 8.11 Case Study: Card Shuffling and Dealing Simulation
  - 8.11 Q1: An algorithm that could execute for an unknown amount of time because it depends on random numbers may:
    - Get caught in an infinite loop.
    - Have a redundancy.
  - Issue a compiler error.
  - Suffer from indefinite postponement.

5/13	Exercícios de múltipla escolha (em Inglês)
26.	Section 8.12 Function Pointers
	8.12 Q1: Which of the following is not true of pointers to functions?
	They can not be assigned to other function pointers.
	They contain the starting address of the function code.
	They can be stored in arrays.
	They are dereferenced in order to call the function.
27.	8.12 Q2: ( *max )( num1, num2, num3 );:
	Is a call to the function pointed to by max.
	Is the header for function max.
	Is a declaration of a pointer to a function called max.
	Is the prototype for function max.
28.	Section 8.13 Introduction to Pointer-Based String Processing
	Section 8.13.1 Fundamentals of Characters and Pointer-Based String
	8.13.1 Q1: Which of the following is not true?
	$\bigcirc$ A string in C++ is an array of characters ending in the null character ('\0').
	String literals are written inside of single quotes.
	<ul> <li>A string may be assigned in a declaration to either a character array or a variable of type char *.</li> </ul>
	$\bigcirc$ A string may include letters, digits and various special characters (i.e., +, -, * ).
29.	8.13.1 Q2: cin.getline( superstring, 30 ); is equivalent to which of

- the following? cin.getline( superstring, 30, '\0');. cin.getline( superstring, 30, '\s' );. cin.getline( superstring, 30, '\n' );. cin.getline( superstring, 30, '\t' );.
- Section 8.13.2 String Manipulation Functions of the String-Handling 30. Library
  - 8.13.2 Q1: Which of the following correctly copies the contents of

)/ I J	Exercicios de multipla esconia (em ingres)
	string2 into string1? Assume that string2 is equal to "goodbye" and string1 is equal to "good morning"?
	<pre>strcpy( string1, string2, 6 );.</pre>
	Strncpy( string1, string2, 5 );.
	<pre>strcpy( string1, string2 );.</pre>
	<pre>strncpy( string1, string2, 6 );.</pre>
31.	8.13.2~Q2:~Assuming~that~string1 = "hello"~and~string2 = "hello"~world",~which~of~the~following~returns~0?
	Strncmp( string1, string2, 5 );.
	<pre>strcmp( string1, string2, 6 );.</pre>
	<pre>strcmp( string1, string2 );.</pre>
	<pre>strncmp( string1, string2, 6 );.</pre>
32.	8.13.2 Q3: strtok does not:
	Completely tokenize the string the first time it is called.
	Replace each delimiting character with '\0'.
	Return a pointer to the token it creates.
	Modify the input string.
	Clear Answers / Start Over Submit Answers for Grading

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



Copyright © 1995 - 2010 Pearson Education . All rights reserved. Legal Notice | Privacy Policy | Permissions