Home Exercícios de múltipla escolha (em Inglês) Exercícios de múltipla escolha (em Inglês)

## **Capitulo 14**

This activity	contains 13 questions.	
1.	Section 14.1 Introduction	
	14.1 Q1: The relationship between function templates and function-template specializations is most similar to the relationship between:	
	Functions and return types.	
	Classes and objects.	
	Headers and source files.	
	Classes and functions.	
2.	Section 14.2 Function Templates	
	14.2 Q1: A difference between function-template specializations and overloaded functions is that:	
	<ul> <li>Function-template specializations cannot accept user-defined types.</li> </ul>	
	Overloaded functions usually do not perform similar operations on each data type.	
	<ul> <li>Function-template specializations are generated by the compiler, not the programmer.</li> </ul>	
	<ul> <li>Function-template specializations do not perform identical operations on each data type.</li> </ul>	
3.	14.2 Q2: Function-template specializations:	
	Are generated at compile time.	
	<ul> <li>Are not more concise than the equivalent set of overloaded functions.</li> </ul>	
	Are identical to macros.	
	Have a maximum allowed number of type parameters.	
4.	Section 14.3 Overloading Function Templates	
	14.3 Q1: A function template can be overloaded by:	

Using non-template functions with a different name but the same parameters.Using other function templates with the same function name and parameters.

Using other function templates with a different name but the same parameters.

	Using non-template functions with the same name and different parameters.
5.	<pre>14.3 Q2: Assuming that all four of the following functions are defined, which one will be called by the function call square( 23.4 )?     template &lt; typename T1, typename T2 &gt; T1 square( T1 num1, T2 num2 ).     double square( double num ).     int square( int num ).     template &lt; typename T &gt; T square( T num ).</pre>
6.	Section 14.4 Class Templates
	<ul> <li>14.4 Q1: Class templates:</li> <li>Must include template &lt; typename Type &gt; inside the class definition.</li> <li>May include the statement template &lt; typename Type &gt; anywhere.</li> <li>Have the option of including the optional statement template &lt; typename Type &gt;.</li> <li>Must put template &lt; typename Type &gt; before the class definition.</li> </ul>
7.	14.4 Q2: For a class template, the binary scope resolution operator (::) is needed:  Only if multiple class-template specializations will be created from this class
	template.  Both in the prototype and definition of a member function.
	Only in the definitions of the member functions defined outside the class.
	In neither the definition nor prototype of member functions.
8.	14.4 Q3: Function templates:
	<ul> <li>Do not need a separate template &lt; typename type &gt; statement if they take objects from a template class as a parameter.</li> </ul>
	Can include objects of template classes as parameters.
	Do not need a separate template < typename type > statement.
	Must have return type T.

9.	Section 14.5 Nontype Parameters and Default Types for Class Templates
	<ul> <li>14.5 Q1: Nontype parameters are:</li> <li>Specified before the angle-bracket-enclosed type-parameter list.</li> <li>Required for class templates.</li> <li>Unable to have default arguments.</li> <li>const.</li> </ul>
10.	14.5 Q2: Default type parameters are allowed only:
	If the class is used as a container class.
	If the class template also has nontype parameters.
	<ul> <li>If the class template does not have any nontype parameters.</li> <li>As the rightmost (trailing) parameters in a template's type-parameter list.</li> </ul>
	Section 14.6 Notes on Templates and Inheritance
11.	
	14.6 Q1: Select the incorrect statement.
	A non-template class can be derived from a class template-specialization.  A class template appointment on the derive a class template.
	<ul> <li>A class-template specialization can be used to derive a class template.</li> <li>A class template can be derived from a nontemplate class.</li> </ul>
	A non-template class can be used to derive a class-template specialization.
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12.	Section 14.7 Notes on Templates and Friends
	14.7 Q1: Friendship cannot be declared between a class template and:
	A member function of another class.
	Another class template.
	A global function.
	A class-template specialization.

13. Section 14.8 Notes on Templates and static Members

14.8 Q1: Which of the following is false?

With a non-template class, one copy of a static data member is shared among all

objects created from that class.

- One copy of each static member function is shared between all class-template specializations in the class template.
- Each class-template specialization created from a class template has its own copy of each static data member.
- static data members of both template and non-template classes are initialized at file scope.

Clear Answers / Start Over

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