Home 📂 Exercícios de múltipla escolha (em Inglês) D Capitulo 23

Capitulo 23

Section 23.2.3 deque Sequence Container 23.2.3 Q1: Class deque provides:

This activity contains 39 questions.

1.	Section 23.1 Introduction to the Standard Template Library (STL)
	23.1 Q1: Which of the following is not a key component of the STL
	O Pointers.
	Containers.
	Algorithms.
	Iterators.

2.	Section 23.1.1 Introduction to Containers
	23.1.1 Q1: Which of the following is not an STL container type?
	Container adapters.
	Sequence containers.
	Second-class containers.
	Associative containers.

5.	Section 23.2 Sequence Containers	
	23.2 Q1: Which of the following is not a sequence container provided by the STL?	
	O deque.	
	array.	
	○ list.	
	O vector.	
6.	23.2 Q2: Which of the following applications would a deque not be well suited for?	
	 Applications that require frequent insertions and deletions at the front of a container. 	
	Applications that require frequent insertions and deletions at the back of a container.	
	 Applications that require frequent insertions and deletions at the front and at the back of a container. 	
	Applications that require frequent insertions and deletions in the middle of a container.	
7.	Section 23.2.1 vector Sequence Container	
	23.2.1 Q1: Which of the following is a difference between vectors and arrays?	
	Access to any element using the [] operator.	
	The ability to change size dynamically.	
	Efficient direct access to any element.	
	Stored in contiguous blocks of memory.	
8.	23.2.1 Q2: The erase member function of class vector cannot:	
	Specify a range of elements to be removed from the vector.	
	Specify a value to be removed from the vector.	
	Specify an element to be removed from the vector.	
	Be called by member function clear.	
9.	Section 23.2.2 list Sequence Container	
	23.2.2 Q1: The list sequence container does not:	
	Use a doubly linked list.	
	Automatically sort inserted items.	

	Efficiently implement insert and delete operations anywhere in the list.	
	Support bidirectional iterators.	
10.	23.2.2 Q2: Which of the following is not a member function of all sequence containers?	
	O back.	
	front.	
	opush_back.	
	<pre>push_front.</pre>	
11.	Section 23.2.3 deque Sequence Container	
	23.2.3 Q1: Class deque provides:	
	The ability to add storage at either end of the deque.	
	Efficient indexed access to its elements.	
	 Efficient insertion and deletion operations at the front and back of a deque. 	
	All of the above.	
12	Section 23.3 Associative Containers	
12.		
	23.3 Q1: The main difference between set and multiset is:	
	That one deals with keys only, and the other deals with key/value pairs.	
	How they handle duplicate keys.	
	Their interface.	
	Their efficiency.	
13.	23.3 Q2: Data loss could occur if the contents of a were placed into any of the other three associative container types.	
	○ set.	
	multimap.	
	multiset.	
	∩ map.	
14.	Section 23.3.1 multiset Associative Container	
	23.3.1 Q1: The multiset associative container does not:	
	Permit random access to its keys.	

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Need a header file to be used.

	 Use its comparator function object to determine the order of its data. Arrange its data in ascending order by default.
15.	Section 23.3.2 set Associative Container 23.3.2 Q1: If a program attempts to insert a duplicate key into a set: The set will contain multiple copies of that key. A compile error will occur. The duplicate key will be ignored. An exception is thrown
16.	Section 23.3.3 multimap Associative Container 23.3.3 Q1: The expression std::multimap < int, double, std::less < int > >::value_type(15, 2.7): Creates a multimap object containing one key/value pair. Creates a pair object in which first is 15 (type int) and second is 2.7 (type double). Returns the number of times the key/value pair (15, 2.7) appears in the multimap. Creates an empty multimap object.
17.	Section 23.3.4 map Associative Container 23.3.4 Q1: If pairs is a map containing int keys and double associated values, the expression pairs[5] = 10: Associates the value associated with key 10 to key 5 in pairs. Associates the value 5.0 to the key 10 in pairs. Associates the value associated with key 5 to key 10 in pairs. Associates the value 10.0 to the key 5 in pairs.
18.	Section 23.4 Container Adapters 23.4 Q1: Select the false statement. Container adapters: Do not provide the actual data structure implementation for elements to be stored. Have limited iterator support. Have their data stored by underlying data structures. Can push and pop elements.

19.	Section 23.4.1 stack Adapters
	 23.4.1 Q1: To pop an element off the top of a stack for processing: Use member function pop. Use member function top. Use member function top and then member function pop. Use member function pop and then member function top.
(20)	Section 23.4.2 queue Adapters
20.	23.4.2 Q1: Which of the following is a not a member function of queue? output enqueue. pop. empty. size.
21.)	Section 23.4.3 priority_queue Adapters 23.4.3 Q1: Which of the following statements is true of a priority_queue? Each of its common operations is implemented as an inline function. It must be implemented as a deque. A bucket sort is usually associated with it. It does not allow insertions in sorted order.
22.	Section 23.5 Algorithms 23.5 Q1: The algorithms in the STL: Use virtual function calls. Are not as efficient as the algorithms presented in most textbooks. Are implemented as member functions of the container classes. Are implemented as member functions of the container classes.
23.	Section 23.5.1 fill, fill_n, generate and generate_n 23.5.1 Q1: The easiest way to set all the values of a vector to zero is to use function: generate_n. generate. fill_n.

	○ fill.
24.	23.5.1 Q2: Which of the following function calls is a valid way to place elements into vector< char > chars?
	<pre>std::fill_n(chars.begin(), chars.end(), '5');.</pre>
	std::fill(chars.begin(), chars.end(), '5');.
	std::generate(chars.begin(), 10, '5');.
25.	Section 23.5.2 equal, mismatch and lexicographical_compare
	23.5.2 Q1: Given that v1 and v2 are vectors, the function call std::equal(v1.begin(), v1.end(), v2.begin()) returns:
	An iterator pointing to the first location where v1 and v2 are not equal.
	On the internation and the first location where it and 2 are small
	An iterator pointing to the first location where v1 and v2 are equal.
	\bigcirc A bool indicating whether the first element of v1, the last element of v1 and the first element of v2 are all equal.
	A bool indicating whether v1 and v2 are equal.
26.	Section 23.5.3 remove, remove_if, remove_copy and remove_copy_if
	23.5.3 Q1: Mr. Smith has a shopping list stored in a vector. Today, Mrs. Smith decides that she will go get the items that cost less than 10 dollars. If Mr. Smith wants to give his wife a list of her own, he should use the function:
	remove_copy.
	remove.
	remove_copy_if.
	J remove_eapy
27.	Section 23.5.4 replace, replace_if, replace_copy and replace_copy_if
	23.5.4 Q1: The order of the arguments passed to function replace_copy_if must be:
	OutputIterator, InputIterator, ReplacementValue, PredicateFunction.
	OutputIterator, InputIterator, InputIterator, ReplacementValue, PredicateFunction

InputIterator, InputIterator, OutputIterator, PredicateFunction, ReplacementValue

 $Input Iterator, \ Output Iterator, \ Predicate Function, \ Replacement Value$

28.	Section 23.5.5 Mathematical Algorithms
	<pre>23.5.5 Q1: Which of the following is not a mathematical algorithm included in the STL?</pre>
29.	Section 23.5.6 Basic Searching and Sorting Algorithms
	23.5.6 Q1: The easiest way to search through a list of names and output the first one that begins with a vowel would be to use function: binary_search. sort. find
	○ find_if.
30.	Section 23.5.7 swap, iter_swap and swap_ranges
	 23.5.7 Q1: Functions iter_swap and swap_ranges are similar in that both: Can only swap elements within the same array or container. Take two arguments. Take forward iterators as arguments. Swap a range of elements
31.	Section 23.5.8 copy_backward, merge, unique and reverse
	23.5.8 Q1: Which of the following statements produces identical results as the statement:
	<pre>std::copy(v1.begin(), v1.end(), v2.begin()); if v1 and v2 are both 10-element vectors?</pre>
	<pre>std::copy_backward(v1.begin(), v1.end(), v2.end());. std::copy_backward(v2.begin(), v2.end(), v1.end());. std::copy_backward(v1.begin(), v1.end(), v2.begin());. std::copy_backward(v2.begin(), v2.end(), v1.begin());.</pre>

32. ascending order, after these statements execute:

```
std::vector< int > results1;
   std::vector< int > results2;
   std::unique copy( v1.begin(), v1.end(), std::back inserter( results1 ) );
   std::reverse_copy( v1.begin(), v1.end(), std::back inserter( results2 ) );
   which of the following could be true?
        results1 contains more elements than results2.
        The first element in results1 matches the last element in results2.
        results 1 is empty but results 2 is not.
        None of the above.
       Section 23.5.10 Set Operations
33.
       23.5.10 Q1: The __
                                  \_ function would produce the sequence 1, 5, 6
       when passed the sequences 1, 2, 3, 4, 5, 6 and 2, 3, 4, 7 as first/second
      and third/fourth arguments, respectively.
           set_difference.
           set_union.
            set_symmetric_difference.
           set_intersection.
       Section 23.5.11 lower_bound, upper_bound and equal_range
      23.5.11 Q1: Functions lower_bound, upper_bound and equal_range are
       different in their:
            Return types.
            Second argument types.
            First argument types.
            Third argument types.
```

35. Section 23.5.12 Heapsort

23.5.12 Q1: Attributes of a heap do not include:

- The children of a given node are less than or equal to the parent node's value.
- Having a binary-tree structure.
- Having the largest element at the top of the heap.
- A preference to pop, rather than push, elements in the heap.

36.	Section 23.5.13 min and max
	23.5.13 Q1: Which of the following function calls would not return the value that is its first argument?
	<pre>std::min('N', 'P'). std::max(17, 16).</pre>
	<pre>std::max('d', 'k').</pre>
	<pre>std::min(3, 23).</pre>
37.	Section 23.5.14 STL Algorithms Not Covered in This Chapter
	23.5.14 Q1: The difference between functions partition and stable_partition is that:
	partition may throw an exception while stable_partition will not.
	stable_partition allows an element to be duplicated and placed into both partitions.
	partition can only be called on a sequence that is already sorted.
	stable_partition maintains the original order for the elements in each of the two resulting partitions with respect to the other elements in that same partition.
38.	Section 23.6 Class bitset
	23.6 Q1: Which of the following bitset member functions cannot be called with an empty argument list?
	reset.
	O test.
	none.
	O size.
39.	Section 23.7 Function Objects
	23.7 Q1: Function objects have their functions called by using:
	operator().
	The arrow operator (->).
	The dot operator (.).
	The binary scope resolution operator (::).
	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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