

Programming 622 Tutorial 2

C++ Programming Questions and Answers – Standard Template Library

- Write your answers into to the word document using any word processor application. Save your document as name_icasNo_qualification eg Noble_Nzama_12354_Bsc2ndyear
- convert it to PDF and submit it into this link “
<https://www.dropbox.com/request/52CqV9sR95Vci7XbsjMA> ” before Friday 00:00 (28/08/2020)

1. What is the Standard Template Library?
 - a) Set of C++ template classes to provide common programming data structures and functions
 - b) Set of C++ classes
 - c) Set of Template functions used for easy data structures implementation
 - d) Set of Template data structures only
2. Pick the correct statement.
 - a) STL is a generalized library
 - b) Components of STL are parameterized
 - c) STL uses the concept of templates classes and functions to achieve generalized implementation
 - d) All of the mentioned
3. How many components STL has?
 - a) 1
 - b) 2
 - c) 3
 - d) 4
4. What are the containers?
 - a) Containers store objects and data
 - b) Containers stores all the algorithms
 - c) Containers contain overloaded functions
 - d) Containers contain set of Iterators
5. In how many categories, containers are divided?
 - a) 1
 - b) 2
 - c) 3
 - d) 4

6. What are the Sequence Containers?
 - a) Containers that implements data structures which can be accessed sequentially
 - b) Containers that implements sorted data structures for fast search in $O(\log n)$
 - c) Containers that implements unsorted(hashd) data structures for quick search in $O(1)$
 - d) Containers that implements data structures which can be accessed non-sequentially
7. How many Sequence Containers are provided by C++?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
8. What are the Associative Containers?
 - a) Containers that implements data structures which can be accessed sequentially
 - b) Containers that implements sorted data structures for fast search in $O(\log n)$
 - c) Containers that implements unsorted(hashd) data structures for quick search in $O(1)$
 - d) Containers that implements data structures which can be accessed non-sequentially
9. How many Associative Containers are provided by C++?
 - a) 2
 - b) 3
 - c) 4
 - d) 5
10. What are Unordered Associative Containers?
 - a) Containers that implements data structures which can be accessed sequentially
 - b) Containers that implements sorted data structures for fast search in $O(\log n)$
 - c) Containers that implements unsorted(hashd) data structures for quick search in $O(1)$
 - d) Containers that implements data structures which can be accessed non-sequentially
11. What are Container Adaptors?
 - a) Containers that implements data structures which can be accessed sequentially
 - b) Containers that implements sorted data structures for fast search in $O(\log n)$
 - c) Containers that implements unsorted(hashd) data structures for quick search in $O(1)$
 - d) Containers that provide a different interface for sequential containers
12. How many Container Adaptors are provided by C++?
 - a) 2
 - b) 3
 - c) 4
 - d) 5

13. What are Iterators?

- a) Iterators are used to iterate over C-like arrays
- b) Iterators are used to iterate over pointers
- c) Iterators are used to point memory addresses of STL containers
- d) Iterators are used to iterate over functions

14. How many types of Iterators are provided by C++?

- a) 2
- b) 3
- c) 4
- d) 5

15. Which header file is used for Iterators?

- a) <iterator>
- b) <algorithm>
- c) <iter>
- d) <loopIter>