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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Fundamentals of Object Oriented Programming (course)

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(https://examform.nptel.ac.]n/2025_01/Weeks19:Assignment 9

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

1) Which of the following is an associative container in STL?

vector

deque

set

O list

No, the answer is incorrect.

Course outline

About NPTEL ()

Due on 2025-03-26, 23:59 IST.

1 point

How does an NPTEL online course work? ()	Score: 0 Accepted Answers: set	
Week 0 ()	2) Which of the following containers allows bidirectional iterators in STL?	1 point
Week 1 ()	vector deque	
Week 2 ()	○ set	
Week 3 ()	O array No, the answer is incorrect. Score: 0	
Week 4 ()	Accepted Answers:	
Week 5 ()	set	
Week 6 ()	 3) In a C++ program to: Create a vector<int> containing the elements 5, 15, 10, 20, 25.</int> 	1 point
Week 7 ()	Use std::max element() to find the maximum element.Print the maximum element.	
Week 8 ()	What is the output of the program?	
Week 9 ()	○ 25 ○ 20	
Introduction to Standard Template Library (unit? unit=61&lesson=103)	Compilation error Undefined behavior	
Associative Containers (unit? unit=61&lesson=104)	No, the answer is incorrect. Score: 0 Accepted Answers: 25	
Unordered Containers, Iterators (unit? unit=61&lesson=105)	4) Which of the following is a non-modifying algorithm in STL? std::sort()	1 point

STL Algorithms (unit? unit=61&lesson=106)	std::copy() std::find()	
Case Studies - Library Management System, Real-Time Stock Tracker (unit? unit=61&lesson=107)	Std::remove() No, the answer is incorrect. Score: 0 Accepted Answers: std::find()	
Quiz: Week 9: Assignment 9 (assessment? name=124)	 5) In a C++ program to: Create a vector<int> containing 50, 10, 40, 30, 20.</int> Sort the vector in ascending order using std::sort(). Print the sorted elements. 	1 point
Solution for Week 9 (unit? unit=61&lesson=132)	Print the sorted elements. What is the correct sequence of output?	
Week 10 ()	10 20 30 40 50	
Week 11 ()	50 40 30 20 10Compilation error	
Week 12 ()	Undefined behavior	
Download Videos ()	No, the answer is incorrect. Score: 0 Accepted Answers:	
Weekly Feedback ()	10 20 30 40 50	
	 6) In a C++ program that: Creates a map<string, int=""> to store student names and their marks.</string,> Adds the entries Alice: 90, Bob: 85, Charlie: 95. Prints all entries using an iterator. 	1 point
	What is the correct output?	
	Alice: 90, Bob: 85, Charlie: 95	
	Bob: 85, Charlie: 95, Alice: 90	
	Compilation error	

O Undefined behavior	
No, the answer is incorrect. Score: 0	
Accepted Answers: Alice: 90, Bob: 85, Charlie: 95	
 7) In a program to: Create a set<int> containing the elements 50, 10, 30, 20, 40.</int> Use an iterator to traverse the set and print the elements. Use std::find() to check if 30 exists in the set. 	1 point
Which of the following is true?	
The output is sorted in ascending order, and 30 is found.	
The output is sorted in descending order, and 30 is not found.	
The elements are printed in the order they were added.	
Compilation error.	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
The output is sorted in ascending order, and 30 is found.	
8) Which of the following operations is not directly supported by the std::list container in C++ (which implements a doubly linked list)?	1 point
☐ Insertion of elements at the front of the list	
◯ Insertion of elements at the back of the list	
Oirect access to elements by index	
Removal of elements from the front of the list	
No, the answer is incorrect. Score: 0	
Accepted Answers:	
Direct access to elements by index	

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9) Consider the following C++ code snippet. What will be the output?
#include <iostream>
#include <vector>
int main() {
     std::vector<int> vec = {1, 2, 3, 4, 5};
     std::vector<int>::iterator it = vec.begin();
     std::advance(it, 2);
     *it = 10;
    for (auto i = vec.begin(); i != vec.end(); ++i) {
         std::cout << *i << " ";
    return 0;
  012345
  0 1 2 10 4 5
  0 1 2 3 10 5
  0 1 2 3 4 10
 No. the answer is incorrect.
 Score: 0
 Accepted Answers:
 121045
```

1 point

```
10) What will be the output of the following C++ program?
#include <iostream>
#include <deque>
using namespace std;
int main() {
    deque<int> dq;
    dq.push_back(10);
    dq.push_front(20);
    dq.push_back(30);
    dq.push_front(40);
    dq.pop_back();
    dq.pop_front();
    for (int x : dq) {
         cout << x << " ";
    return 0;
  0 10 30
  20 10
  20 30
  0 10 20
```

1 point

No, the answer is incorrect. Score: 0

Accepted Answers:

20 10