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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Programming In Modern C++ (course)



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Course outline

How does an NPTEL online course work? ()

Week 0 ()

Week 1 ()

- Lecture 01 : Course Overview (unit? unit=22&lesson=23)
- Lecture 02 : IO & Loop (unit? unit=22&lesson=24)

Week 1: Assignment 1

Assignment not submitted

1) Consider the code segment given below.

#include <iostream>
#include<cmath>

```
int main(){
   int n = 4;
   ______; //LINE-1
   return 0;
}
```

Fill in the blank at LINE-1 such that the output is 16-2.

- a) std::cout << std::pow(n,2) << " " << std::sqrt(n)
- b) cout << pow(n,2) << " " << sqrt(n)
- c) std::cout << std::pow(n) << " " << std::sqrt(n)
- d) cout << pow(n) << " " << sqrt(n)
- Оа
- b
- Ос
- \bigcirc d

^

Due date: 2023-08-09, 23:59 IST.

2 points

```
2)
                                                                                                  2 points
Lecture 03 :
 Arrays and
                        Consider the code segment given below.
 Strings (unit?
 unit=22&lesson=25)
                        #include <iostream>
Lecture 04 :
                        #include<vector>
  Sorting and
                        using namespace std;
 Searching
 (unit?
                        int main(){
 unit=22&lesson=26)
                                                           //LINE-1
                             --------
Lecture 05 :
                             arr.resize(10);
  Stack and
                             for (int i=0;i<10;i++)
  Common Data
 Structures /
                                  arr[i] = i+1;
 Containers
                             return 0;
 (unit?
                        }
 unit=22&lesson=27)
                        Fill in the blank at LINE-1 such that the program will run successfully.
Tutorial 01 :
 How to build a
                        a) vector<int> arr
 C/C++
 program?: Part
                        b) vector<int> arr(3)
 1: C
 Preprocessor
                        c) vector<int> arr[3]
 (CPP) (unit?
 unit=22&lesson=28)
                        d) int arr[3]
Week 1 Lecture
 Material (unit?
                          a
 unit=22&lesson=29)
                          \Box b
Quiz: Week 1:
                          Ос
  Assignment 1
 (assessment?
                          \Box d
 name=221)
W1_Programming_Qs.1
 (/noc23_cs78/progassigriment?
 name=222)
W1 Programming Qs.2
  (/noc23 cs78/progassignment?
 name=223)
W1_Programming_Qs.3
  (/noc23_cs78/progassignment?
 name=224)
Week 1
  Feedback Form
  (unit?
 unit=22&lesson=30)
 Week 2 ()
```

Download Videos () Consider the following code segment.

#include <iostream>

```
2 points
```

Which line/s will give compilation error/s?

- a) LINE-1
- b) LINE-2
- c) LINE-3
- d) LINE-4
- a
- \Box b
- ✓ c
- \Box d

```
4) Consider the code segment given below.
   #include <iostream>
   #include <algorithm>
   using namespace std;
   int main () {
       int data[] = {50, 30, 40, 10, 20};
       sort (&data[2], &data[5]);
       for (int i = 0; i < 5; i++)
           cout << data[i] << " ";
       return 0;
   }
   What will be the output?
   a) 10 20 30 40 50
   b) 10 30 40 50 20
   c) 50 30 10 20 40
   d) 50 10 20 30 40
 Оа
 \bigcirc b
 C
 \bigcirc d
```

2 points

^

2 points

5)

#include <iostream>
#include <string>
using namespace std;
int main(void) {

Consider the code segment given below.

```
string str1 = "Welcome ";
string str2 = "students";
_____; //LINE-1
cout << str1;
return 0;</pre>
```

Choose the appropriate option to fill in the blank at LINE-1, such that the output of the code would be: Welcome students.

a) str1 += str2

}

- b) strcat(str1, str2)
- c) str1.append(str2)
- d) str1.insert(str2)
 - a
 - \Box b
 - С
 - \Box d

6) Consider the code segment given below. #include <iostream> #include <cstring> #include <stack> using namespace std; int main(){ char str[10] = "COMPUTER"; stack<char> s1, s2; int i; for(i = 0; i < strlen(str)/3; i++)s1.push(str[i]); for(; i < strlen(str); i++) s2.push(str[i]); while (!s1.empty()) { s2.push(s1.top()); s1.pop(); } while (!s2.empty()) { cout << s2.top(); s2.pop(); return 0; 7 What will be the output? a) COMPUTER b) CORETUPM c) UTERCOMP d) COMPRETU Оа **o** b \bigcirc c \bigcirc d

2 points

 Consider the code segment below. #include <iostream> #include <algorithm> using namespace std; void modify(int *arr){ rotate(arr, arr + 3, arr + 5); rotate(arr, arr + 2, arr + 4); 7 int main() { int iarr[5]; for(int i = 0; i < 5; i++) *(iarr + i) = i * 2;modify(iarr); for (int i = 0; i < 5; ++i) cout << *(iarr + i) << " "; return 0; } What will be the output? a) 0 2 4 6 8 b) 0 2 6 8 4 c) 6 8 0 2 4 d) 2 4 6 8 0 Оа b Ос \bigcirc d

2 points

```
2 points
   Consider the code segment given below.
   #include <iostream>
   #include <algorithm>
   using namespace std;
   int main() {
       int iarr[] = {10, 20, 50, 40, 10, 50};
       rotate(&iarr[0], &iarr[2], &iarr[6]);
       remove(&iarr[0], &iarr[6], 10); //LINE-1
       for(int i = 0; i < 4; ++i)
           cout << iarr[i] << " ";
       return 0;
   }
   What will be the output?
   a) 40 10 10 20
   b) 50 40 50 20
   c) 50 50 40 20
   d) 40 10 40 20
 Оа
 b
 Ос
 \bigcirc d
9)
                                                             2 points
```



```
Consider the code segment given below.
 #include<iostream>
 #include<algorithm>
 #include<string.h>
 using namespace std;
 bool compare(char c1, char c2){
     return tolower(c1) > tolower(c2); //LINE-1
 }
 int main(){
     char arr1[20] = "C++ Program", arr2[20] = "C Program";
     cout << lexicographical_compare(arr1, arr1+strlen(arr1), arr2, arr2+5,</pre>
                    compare);
     return 0;
 }
 What will be the output?
 a) 1
b) 0
 c) -1
 d) Compilation Error: function is not defined
   a
   \bigcirc b
   \bigcirc c
You may submit any number of times before the due date. The final submission will be considered
```

You may submit any number of times before the due date. The final submission will be considered for grading.

Submit Answers

