

Assessment submit
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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)
- ☐ Lecture 03 :
Arrays and
Strings (unit?
unit=22&lesson=25)

Thank you for taking the Week 1: Assignment 1.

Week 1: Assignment 1

Your last recorded submission was on 2023-07-29, 10:18 IST Due date: 2023-08-09, 23:59 IST.

- 1) Consider the code segment given below. 2 points

```
#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)`

- ☒ a
- ☐ b
- ☐ c

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Lecture 04 :
Sorting and
Searching
(unit?
unit=22&lesson=26)

Lecture 05 :
Stack and
Common Data
Structures /
Containers
(unit?
unit=22&lesson=27)

Tutorial 01 :
How to build a
C/C++
program?: Part
1: C
Preprocessor
(CPP) (unit?
unit=22&lesson=28)

Week 1 Lecture
Material (unit?
unit=22&lesson=29)

**Quiz: Week 1:
Assignment 1
(assessment?
name=221)**

W1_Programming_Qs.1 ☒ a
(/noc23_cs78/progassignment?
name=222) ☒ b

W1_Programming_Qs.2 ☐ c
(/noc23_cs78/progassignment?
name=223) ☐ d

W1_Programming_Qs.3
(/noc23_cs78/progassignment?
name=224)

Week 1
Feedback Form
(unit?
unit=22&lesson=30)

Week 2 ()

**Download
Videos ()**

☐ d

2)

2 points

Consider the code segment given below.

```
#include <iostream>
#include<vector>
using namespace std;

int main(){
    _____ ;    //LINE-1
    arr.resize(10);
    for (int i=0;i<10;i++)
        arr[i] = i+1;
    return 0;
}
```

Fill in the blank at LINE-1 such that the program will run successfully.

- a) vector<int> arr
- b) vector<int> arr(3)
- c) vector<int> arr[3]
- d) int arr[3]

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3) Consider the following code segment.

2 points

```
#include <iostream>
#include<cstring>
using namespace std;

int main(){
    string s = "programming in modern C++";
    cout << s.size();           //LINE-1
    cout << strlen(s);          //LINE-2
    cout << s.length();         //LINE-3
    cout << strlen(s.c_str());  //LINE-4
    return 0;
}
```

Which line/s will give compilation error/s?

a) LINE-1

b) LINE-2

c) LINE-3

d) LINE-4

☐ a☒ b☐ c☒ d

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4) Consider the code segment given below.

2 points

```
#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

- ☐ a
- ☐ b
- ☒ c
- ☐ d

5)

2 points

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Consider the code segment given below.

```
#include <iostream>
#include <string>
using namespace std;

int main(void) {
    string str1 = "Welcome ";
    string str2 = "students";
    -----; //LINE-1
    cout << str1;
    return 0;
}
```

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
- ☐ b
- ☒ c
- ☐ d

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6) Consider the code segment given below.

2 points

```
#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;
}
```

What will be the output?

- a) COMPUTER
- b) CORETUPM
- c) UTERCOMP
- d) COMPRETU

- ☐ a
- ☒ b
- ☐ c
- ☐ d

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7) Consider the code segment below.

2 points

```
#include <iostream>
#include <algorithm>
using namespace std;

void modify(int *arr){
    rotate(arr, arr + 3, arr + 5);
    rotate(arr, arr + 2, arr + 4);
}

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

- ☐ a
- ☒ b
- ☐ c
- ☐ d

Assessment submitted.

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8) Consider the code segment given below.

2 points

```
#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

☐ a☒ b☐ c☐ d

9)

2 points

Assessment submitted.

X

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,
                                    compare);

    return 0;
}
```

What will be the output?

- a) 1
- b) 0
- c) -1
- d) Compilation Error: function is not defined

- ☒ a
- ☐ b
- ☐ c
- ☐ d

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

Submit Answers