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



Register for Certification exam

(https://examform.nptel.ac.]n/2023_01/Wreekshard Assignment 1

The due date for submitting this assignment has passed.

Due on 2023-02-08, 23:59 IST.

Assignment submitted on 2023-02-05, 21:32 IST

2 points

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)
- 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=164)
- W1_Programming_Qs_1 (/noc23_cs50/progassignment? name=165)
- W1_Programming_Qs_2 (/noc23_cs50/progassignment? name=166)
- W1_Programming_Qs_3 (/noc23_cs50/progassignment?

```
Consider the following program.
#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(arri, arri+strlen(arri), arr2, arr2+strlen(arr2),</pre>
                   compare);
    return 0;
}
What will be the output/error?
a) 1
b) 0
c) -1
d) Compilation Error: function is not defined
  O a
  b
  O c
  \bigcirc d
```

```
name=167)
Week 1 Feedback Form
  (unit?unit=22&lesson=30)

    Assignment 1 Solution

 (unit?unit=22&lesson=31)
  Week 2 ()
 Week 3 ()
 Week 4 ()
 Week 5 ()
 Week 6 ()
 Week 7 ()
 Week 8 ()
 Download Videos ()
 Books ()
 Transcripts ()
 Problem Solving
 Session ()
```

```
No, the answer is incorrect.
Score: 0
Accepted Answers:
а
                                                                                             1 point
   Consider the following code segment.
   #include <iostream>
   #include <algorithm>
   using namespace std;
   int main() {
       int data[] = \{1,2,3,4,5\};
       int key = 5;
       if(binary_search(_____))
                                           //LINE-1
            cout << "found";
       else
            cout << "not found";
       return 0;
   }
   Fill in the blank at LINE-1 so that the program will print "not found"?
   a) &data[0], &data[5], key
   b) data, data+5, key
   c) &data[0], &data[4], key
   d) data+1, data+4, key
 ✓ a
 b
 ✓ c
 d
```

```
No, the answer is incorrect.
Score: 0
Accepted Answers:
d
   Consider the following code segment.
   #include <iostream>
   #include <algorithm>
   using namespace std;
   int main () {
       int data[] = {50, 30, 40, 10, 20};
       sort (&data[1], &data[4]);
       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 10 30 40 20
   d) 50 10 20 30 40
 Оа
 0 b
 O c
 \bigcirc d
```

```
Yes, the answer is correct.
Score: 2
Accepted Answers:
С
                                                                                           2 points
  Consider the following code segment.
  #include <iostream>
  #include <algorithm>
  using namespace std;
  int main() {
       int element[5];
       for(int i = 1; i \le 5; i++)
           *(element + i - 1) = i * 5;
       rotate(element, element + 4, element + 5);
       rotate(element, element + 1, element + 4);
       for (int i = 0; i < 5; ++i)
           cout << element[i] << " ";
       return 0;
  }
  What will be the output?
  a) 5 10 15 20 25
  b) 5 10 15 25 20
   c) 20 10 15 25 5
  d) 25 5 10 15 20
 O a
 b
 O c
```

 \bigcirc d Yes, the answer is correct. Score: 2 Accepted Answers: Consider the following code segment. #include <iostream> #include <vector> using namespace std; int main() { const int size = 3, c = 65; vector<char> vc(size, 'A'); for (int i = 1; $i \le 2$; i++) vc.push_back(65 + i); vc.resize(10, 90); vc.resize(8); for (int i = 0; i < vc.size(); i++) cout << vc[i] << " "; return 0; } What will be the output? a) A A A B C Z Z Z b) A A B B C Z Z Z c) A A A B C Z Z d) A A A B C Z Z Z Z

a \bigcirc b Ос \bigcirc d Yes, the answer is correct. Score: 2 Accepted Answers: а Consider the following code segment. #include <iostream> #include <string> using namespace std; int main(void) { string s1 = "C++ "; string s2 = "Program"; //LINE-1 cout << si; return 0; } Choose the appropriate option to fill in the blank at LINE-1, such that the output of the code would be: C++ Program. a) s1 += s2 b) strcat(s1, s2) c) s1.append(s2) d) s1.insert(s2)

a
b
c
d
Yes, the answer is correct.
Score: 2
Accepted Answers:
a
c



```
Consider the following code segment.
  #include <iostream>
  #include <algorithm>
  using namespace std;
  int main() {
      int data[] = { 1, 2, 3, 4, 5 };
      for (int i = 0; i < 1; i++) {
          int j = data[i];
          replace(data, data + 5, j, *(_____));
                                                                //LINE-1
      for (int i = 0; i < 5; ++i)
          cout << data[i] << " ";
      return 0;
  }
  Fill in the blank at LINE-1 such that the output is
  5 2 3 4 5
  a) data + 4 - i
 b) data + 5 - i
  c) data + i - 4
 d) data + i - 5
a
O b
Ос
\bigcirc d
```

Yes, the answer is correct. Score: 2

Accepted Answers:

а



```
Consider the following code segment.
#include <iostream>
#include <cstring>
#include <stack>
using namespace std;
int main(){
    char str[10] = "123456789";
    stack<char> s1, s2;
    int i;
    for(i = 0; i < strlen(str)/2; i++)
        s1.push(str[i]);
    for(i=i-1; 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();
    7
    return 0;
}
What will be the output?
a) 1234987654
b) 123498765
a\ 40040076E4
```

```
a 1204031004
 (d) 123459876
 Ос
 O d
No, the answer is incorrect.
Score: 0
Accepted Answers:
а
   Consider the following code segment.
   int i = 5;
   const int *p = &i;
   int * const q = &i;
   int const *r = &i;
   int const * const s = &i;
   *p = 10; //STMT-1
   *q = 10; //STMT-2
   *r = 10; //STMT-3
   *s = 10; //STMT-4
   Which statement/statements is/are correct?
   a) STMT-1
   b) STMT-2
   c) STMT-3
   d) STMT-4
 O a
```

\bigcirc b
\bigcirc d
No, the answer is incorrect. Score: 0
Accepted Answers:
b and a second s

