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

Announcements (announcements) About the Course (preview) Ask a Question (forum)

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Unit 3 - Week 1

Course

How does an NPTEL online course work?

Week 0

Week 1

- Module 1 : Recap of C (Lecture 01) (unit? unit=17&lesson=18)
- Module 1 : Recap of C (Lecture 02) (unit? unit=17&lesson=19)
- Module 1 : Recap of C (Lecture 03) (unit? unit=17&lesson=20)
- Module 2:
 Programs with IO and Loop (Lecture 04) (unit? unit=17&lesson=21)

Assignment 1

The due date for submitting this assignment has passed.

Due on 2020-09-30, 23:59 IST.

Assignment submitted on 2020-09-29, 09:45 IST

1) 2 points

Consider the following code segment.

#include <iostream>

Fill in the blank at LINE-1 with appropriate option/s such that the output is: 10 20

- □ a) *p
- □ b) **p
- d) *p[3]

Yes, the answer is correct. Score: 2

```
Module 3 :
 Arrays and
 Strings (Lecture
 05) (unit?
 unit=17&lesson=22)
```

Module 4 : Sorting and Searching (Lecture 06) (unit? unit=17&lesson=23)

Module 5 : Stack and Its Applications (Lecture 07) (unit? unit=17&lesson=24)

Lecture Materials (unit? unit=17&lesson=25)

Quiz : **Assignment 1** (assessment? name=123)

W1_Programming-

Qs1 (/noc20_cs57/progassignment? a) 10 30 50 name=126)

W1_Programming-

(/noc20_cs57/progassignment? name=127)

W1 Programming-

Qs3 (/noc20_cs57/progassignmen#Ccepted Answers:

name=128) Feedback For

Week 1 (unit? unit=17&lesson=26)

Week 2

Week 3

Week 4

Week 5

Week 6

Week 7

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```
Accepted Answers:
```

c) (*p)[3]

Consider the following code segment.

```
#include <iostream>
```

```
using namespace std;
int main() {
    int a[] = { 10, 20, 30, 40, 50, 60 }, *p;
    p = a + 5;
                               // LINE-1
    int i = 0;
    while (i < 3) {
        cout << p[-i] << " "; // LINE-2
        i++;
    }
    return 0;
}
```

What will be the output?

- b) 60 50 40
- o c) 60 40 20
- (a) 60 60 60

Yes, the answer is correct.

Score: 2

```
d) 60 60 60
```

3) Consider the following code segment.

```
#include <iostream>
using namespace std;
struct shape {
    int type;
    union g_shape {
        struct rect_share { int pt1, pt2; } r1;
        struct tri_shape { int pt1, pt2, pt3; } r2;
    };
    union g_shape s;
};
```

What will be the sizeof(shape) (consider the sizeof(int) = 4)?

2 points

2 points

Text Transcripts

Assignment Solution

Books

Live Interactive Session

```
a) 8b) 12
```

© c) 16

Od) 24

Yes, the answer is correct.

Score: 2

Accepted Answers:

- c) 16
- 4) Consider the following code segment.

```
2 points
```

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

int main() {
   int a[] = { 5, 20, 15 };
   int *arr[3] = { a, a + 1, a + 2 };

   cout << *arr[*arr[1] - 19];

   return 0;
}</pre>
```

What will be the output?

- (a) 5
- b) 20
- Oc) 15
- Od) Unpredictable value

Yes, the answer is correct.

Score: 2

Accepted Answers:

b) 20

5) Consider the following code segment. 2 points #include <iostream> #include <algorithm> using namespace std; bool compare(int i, int j) { return (i > j); } int main() { int data[] = { 40, 30, 90, 10, 20, 50, 70, 60, 80 }; sort(data, _____, compare); // LINE-1 for (int i = 0; i < 9; i++) cout << data[i] << " "; return 0; } Fill in the blank with appropriate option/s, such that the output is: 90 40 30 20 10 50 70 60 80 a) data + 9 c) data[8] ☑ d) &data[5] Yes, the answer is correct. Score: 2 **Accepted Answers:** b) data + 5 d) &data[5]

https://onlinecourses.nptel.ac.in/noc20_cs57/unit?unit=17&assessment=123

6)

2 points

```
Consider the following code segment.
#include <iostream>
#include <string>
using namespace std;
int main() {
    string str1 = "Physical ";
    string str2 = "Science";
    str1 = ____; // LINE-1
    cout << str1;
   return 0;
}
Fill in the blank at LINE-1 such that the output is: Physical Science.
  b) strcat(str1,str2)
  c) strcat(strcpy(str2,str1),str2)
  d) str1.append(str2)
 Yes, the answer is correct.
 Score: 2
 Accepted Answers:
 a) str1 + str2
 d) str1.append(str2)
                                                                2 points
7) Consider the following code segment.
  #include <iostream>
  #include <vector>
  int main() {
      std::vector<int> myvector(5);
      for (int i = 1; i < 5; i++)
          myvector[i] = i; // LINE-1
      myvector.resize(3);
                                  // LINE-2
      myvector.resize(4, 110); // LINE-3
      myvector.resize(5);
                                   // LINE-4
      for (int i = 0; i < myvector.size(); i++)
           std::cout << ' ' << myvector[i];
      return 0;
  }
  What will be the output?
  a) 0 1 2 110 0
```

```
b) 0 1 2 1 0
 Oc) 0 1 2 3 4
 (a) 110 110 110 110 0
Yes, the answer is correct.
Score: 2
Accepted Answers:
 a) 0 1 2 110 0
8) Consider the following code segment.
  #include <iostream>
  using namespace std;
  union sample {
      int x;
      char y;
  };
  int main() {
      union sample ptr1;
      ptr1.x = 97;
      ptr1.y = 'B'; // ASCII Code of 'B' is 66
      union sample *ptr2 = &ptr1;
      cout << ptr2->x + (*ptr2).y; // LINE-1
      return 0;
  }
  What will be the output/error?
 a) 163
 b) 132
 c) 194
 Od) Compiler error: type mismatch for + operator
Yes, the answer is correct.
Score: 2
Accepted Answers:
 b) 132
```

2 points

9) Consider the following code segment.

```
2 points
```

Which statement / statements are correct?

- a) STMT-1
- b) STMT-2
- □ c) STMT-3
- □ d) STMT-4

Yes, the answer is correct.

Score: 2

Accepted Answers:

b) STMT-2