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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Course outline How does an **NPTEL** online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 12 : Assignment 12

The due date for submitting this assignment has passed.

Due on 2023-10-18, 23:59 IST.

Assignment submitted on 2023-10-17, 23:00 IST

1)	Which of the following are themselves a collection of different data types?	1 poii
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nt

- a) String
- b) Array
- c) Character
- d) Structure

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) Structure

2) Which of the following comments about the usage structures is true?

1 point

- a) Storage class can be assigned to individual member
- b) Individual members can be initialized within a structure type declaration
- o the scope of the member name is confined to the particular structure, within which it is defined
- d) None of the above

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) The scope of the member name is confined to the particular structure, within which it is defined

Week 9 () Week 10 () Week 11 () Week 12 () O Lecture 56: Structure (Contd.) (unit? unit=109&less on=110) O Lecture 57: Structure with typedef (unit? unit=109&less on=111) O Lecture 58: Pointer (unit? unit=109&less on=112) O Lecture 59: Pointer (Contd.) (unit? unit=109&less on=113) O Lecture 60: Pointer in Structures (unit? unit=109&less on=114) O Lecture 61: Dynamic Allocation and File (unit? unit=109&less on=115) Quiz: Week 12: **Assignment** (assessment? name=279) Week 12 : Programming Assignment 1 (/noc23_cs121 /progassignme nt?name=280)

```
3) What is actually passed if you pass a structure variable to a function?
                                                                                     1 point
  a) Copy of structure variable
  b) Reference of structure variable
  c) Starting address of structure variable

    d) Ending address of structure variable

Yes, the answer is correct.
Score: 1
Accepted Answers:
a) Copy of structure variable
4) Which function is used to write a string to a file?
                                                                                     1 point
  a) fputs()
  b) fprintf()
  c) fwrite()
  d) All of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
d) All of the above
5)
                                                                                     1 point
     Find the output of the following program
        #include<stdio.h>
        int main()
          char A[] = \{'a', b', c', d', e', f, g', h'\};
          char *p = A;
          ++p;
          while(*p != 'e')
          printf("%c", *p++);
          return 0;
        }
  a) abcd
  b) bcd
  c) cd
  d) abcdfgh
Yes, the answer is correct.
Score: 1
Accepted Answers:
b) bcd
```

- Week 12:
 Programming
 Assignment 2
 (/noc23_cs121
 /progassignme
 nt?name=281)
- Week 12: Programming Assignment 3 (/noc23_cs121 /progassignme nt?name=282)
- Week 12:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignme
 nt?name=283)
- Feedback Form of Week 12 (unit? unit=109&less on=284)
- Assignment 12 Solution (unit? unit=109&less on=117)

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```
6)
                                                                                   1 point
      The program will allocate ...... bytes to ptr. Assume sizeof(int) = 4.
     #include<stdio.h>
     #include<stdlib.h>
       int main()
          int *ptr;
          ptr = (int*)malloc(sizeof(int)*4);
          ptr = realloc(ptr,sizeof(int)*2);
          return 0:
  a) 8
  b) 16
  c) 4
  (d) 32
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) 8
                                                                                   1 point
7)
What is the output of the following C code? Assume that the address of x is 2000 (in
decimal) and an integer requires four bytes of memory.
  #include <stdio.h>
  int main()
  {
    unsigned int x[4][3] = \{\{1, 2, 3\}, \{4, 5, 6\}, \{7, 8, 9\}, \{10, 11, 12\}\};
    printf("%u,%u, %u", x+3, *(x+3),*(x+2)+3);
    return 0;
  }
  a) 2036, 2036, 2036
  b) 2012, 4, 2204
  c) 2036, 10, 10
  d) 2012, 4, 6
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) 2036, 2036, 2036
8) Can a structure contain a pointer to its own type?
                                                                                   1 point
  a) Yes
  b) No
  c) Only as an array
  d) Only if the structure is anonymous
```

```
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) Yes
9)
                                                                                 1 point
     What is the output of the following code snippet?
       struct Point {
         int x;
         int y;
       };
       struct Point *arr[2];
       struct Point p1 = \{1, 2\}, p2 = \{3, 4\};
       arr[0] = &p1;
       arr[1] = &p2;
       printf("%d", arr[1]->y);
  a) 1
  (b) 2
  ( c) 3
  (a) 4
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) 4
                                                                                 1 point
     What is the output of the following C program?
             #include <stdio.h>
             struct p
               int x;
               char y;
             };
             int main()
               struct p p1[] = \{1, 90, 62, 33, 3, 34\};
               struct p *ptr1 = p1;
               int x = (sizeof(p1) / 3);
               if (x == sizeof(int) + sizeof(char))
                  printf("True");
                  printf("False");
               return 0;
             }
  a) True
  b) False
  c) No output
  d) Compilation error
```

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) False