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

Announcements (announcements) About the Course (https://swayam.gov.in/nd1\_noc20\_cs06/preview)

Ask a Question (forum) Progress (student/home) Mentor (student/mentor)

## Unit 14 - Week 12

Course outline
How does an NPTEL online course work?
Week 0
Week 1
Week 2
Week 3
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Week 12

## **Assignment 12**

The due date for submitting this assignment has passed. Due on 2020-04-22, 23:59 IST. As per our records you have not submitted this assignment.

- 1) Which of the following are themselves a collection of different data types?
  - a) String
  - b) Array
  - oc) Character
  - d) Structure

No, the answer is incorrect. Score: 0

Accepted Answers:

d) Structure

```
1 point
 Lecture 56 :
                           What is the output?
  Structure
  (Contd.) (unit?
                           #include<stdio.h>
  unit=13&lesson=70)
                           int main()
Clecture 57 :
  Structure with
  typedef (unit?
                           struct xyz{ int a;};
  unit=13&lesson=71)
                           struct xyz obj1={11};
Clecture 58 :
                           struct xyz obj2 = obj1;
  Pointer (unit?
  unit=13&lesson=72)
                           printf("%d", obj2.a);
Clecture 59:
                           obj2.a = 101;
  Pointer (Contd.)
                           printf("%d", obj1.a);
  (unit?
  unit=13&lesson=73)
                           printf("%d", obj2.a);
Lecture 60 :
                           return 0:
  Pointer in
  Structures (unit?
  unit=13&lesson=74)
Lecture 61 :
                          a) 1111011
  Dynamic
                          b) 1111101
  Allocation and
  File (unit?
                          c) 1110111
  unit=13&lesson=75)
                          od) 1110011
O Quiz:
                         No, the answer is incorrect.
  Assignment 12
                         Score: 0
  (assessment?
                         Accepted Answers:
  name=159)
                         b) 11111101
○ Week-12
                                                                                                       1 point
  Problem-01
                           What will be output?
  (/noc20 cs06/progassignment
  name=177)
                           #include <stdio.h>
○ Week-12
                           #include <stdlib.h>
  Problem-02
  (/noc20_cs06/progassignment
                           int main()
  name=178)
○ Week-12
                              int i:
  Problem-03
  (/noc20_cs06/progassignment
                              int *ptr = (int *) malloc(5 * sizeof(int));
  name=179)
                              for (i=0; i<5; i++)
○ Week-12
                                  *(ptr + i) = i:
  Problem-04
  (/noc20_cs06/progassignment
                                   printf("%d ", *ptr++);
  name=180)
                                   printf("%d", (*ptr)++);
Week-12
                                   printf("%d", *ptr);
  Problem-05
                                   printf("%d ", *++ptr);
  (/noc20 cs06/progassignment
  name=181)
                                   printf("%d", ++*ptr);

    Feedback For

                                   return 0;
  Week 12 (unit?
  unit=13&lesson=184)
DOWNLOAD
                          a) Error
VIDEOS
```

Assignment Solution

```
b) 0 1 2 3 4
  oc) 12345
  d) 0 1 2 2 3
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 d) 01223
                                                                     1 point
    What will be output?
   #include <stdio.h>
   int fun(int arr[]) {
     arr = arr + 2;
     printf("%d ", arr[0]);
   int main()
     int arr[3] = \{7, 11, 19\};
     fun(arr);
     printf("%d ", arr[0]);
     printf("%d ", arr[1]);
     return 0;
  a) 19 19 11
  b) 7 7 11
  oc) 9711
  d) 19 7 11
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
 d) 19 7 11
5)
                                                                      1 point
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
  oc) 2036 10 10
  od) 2012 4 6
 No, the answer is incorrect.
 Score: 0
 Accepted Answers:
a) 2036 2036 2036
                                                                  1 point
  In which condition "Hello world!" will be printed?
  #include<stdio.h>
  #include<stdlib.h>
  int main()
       int *ptr;
       ptr = (int *)malloc(sizeof(int)*10);
       if (ptr == NULL)
          printf("Hello world!\n");
       return 0;
  a) if the memory has been allocated to the pointer "ptr"
  successfully
  b) if the memory could not be allocated to the pointer "ptr"
  o c) it will never print
  d) None
 No. the answer is incorrect.
 Score: 0
Accepted Answers:
b) if the memory could not be allocated to the pointer "ptr"
7)
                                                                  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) 2
 b) 4
 oc) 8
 d) None
No, the answer is incorrect.
Score: 0
Accepted Answers:
c) 8
                                                                      1 point
  What does fp point to in the program?
  #include<stdio.h>
  int main()
    FILE *fp;
    fp=fopen("hello", "r");
    return 0;
 • a) The first character in the file
 • b) A structure which contains a char pointer which points to the
 first character of a file.
 • c) The name of the file.
 • d) The last character in the file
No, the answer is incorrect.
Score: 0
Accepted Answers:
b) A structure which contains a char pointer which points to the first
character of a file.
                                                                      1 point
  What is the output of the following C program?
  #include <stdio.h>
  int main()
         int *p, a=100;
         p=&100;
         printf("%d",*p);
         return 0;
 a) 10
 b) a
 o c) address of a
 d) compilation error
No, the answer is incorrect.
Score: 0
Accepted Answers:
```

```
d) compilation error
<sup>10</sup> What is the output of the following C program?
                                                                     1 point
   #include <stdio.h>
   struct p
      int x;
      char y;
   int main()
      struct p p1[] = \{1,21,69,42,64\};
      struct p *ptr1 = p1;
      int x = (sizeof(p1) / 4);
      if (x == sizeof(int) + 2*sizeof(char))
         printf("True");
      else
         printf("False");
      return 0;
  a) True
  • b) False
  o) No output
  d) Compilation error
 No, the answer is incorrect.
Accepted Answers:
 a) True
```