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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)

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Unit 10 - Week 8

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 Lecture 36: More on Functions (unit? unit=9&lesson=50)

Lecture 37:

Function (Contd.) (unit? unit=9&lesson=51)

Assignment 8

The due date for submitting this assignment has passed. Due on 2020-03-25, 23:59 IST. As per our records you have not submitted this assignment.

1) A function prototype is used for

1 point

- a) Declaring the function logic
- b) Calling the function from the main body
- c) Telling the compiler, the kind of arguments used in the function
- d) Telling the user for proper use of syntax while calling the function

No, the answer is incorrect.

Score: 0

Accepted Answers:

- c) Telling the compiler, the kind of arguments used in the function
- 2) What is the default return type if it is not specified in function definition?
 - a) void
 - b) integer
 - oc) double
 - d) float

No, the answer is incorrect. Score: 0

Accepted Answers:

b) integer

```
1 point
O Lecture 38:
                            What is the error in the following program?
  Scanf and Printf
  Functions:
                            #include<stdio.h>
  Function
  Prototype (unit?
                            int f(int a)
  unit=9&lesson=52)
Lecture 39 :
                              a > 20? return(10): return(20);
  Parameter
  Passing in
  Function
  Revision (unit?
                            int main()
  unit=9&lesson=53)
Lecture 40:
  Parameter
                               int b;
  Passing in
  Function
                                b = f(20);
  Revision
                                printf("%d\n", b);
  (Contd.) (unit?
  unit=9&lesson=54)
                               return 0;
O Quiz:
  Assignment 8
  (assessment?
  name=140)
                          • a) Error: 'return' statement cannot be used with conditional
Week-08
                          operators
  Program-01
  (/noc20_cs06/progassignment? b) Error: Prototype declaration
  name=142)
                          • c) Error: Two return statements cannot be used in any function
○ Week-08
                          d) No error
  Program-02
  (/noc20_cs06/progassign mento, the answer is incorrect.
                        Score: 0
  name=144)
                        Accepted Answers:
                        a) Error: 'return' statement cannot be used with conditional operators
Week-08
  Program-03
  (/noc20_cs06/progassignmen)t?
                                                                                                       1 point
  name=145)
Week-08
  Program-04
  (/noc20_cs06/progassignment?
  name=146)
Week-08
  Program-05
  (/noc20 cs06/progassignment?
  name=147)

    Feedback For

  Week 8 (unit?
  unit=9&lesson=149)
Week 9
Week 10
Week 11
Week 12
```

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Assignment Solution

```
How many times 'Hi' will be printed in the program given below
#include<stdio.h>
int i;
int fun();
int main()
   while(i)
      fun();
      main();
   printf("Hello\n");
   return 0;
int fun()
   printf("Hi");
  a) Only once
  • b) Zero times
  o) Infinite times
  d) Compilation error
 No, the answer is incorrect.
 Score: 0
Accepted Answers:
b) Zero times
5)
                                                                   1 point
```

```
What is the output of the C code given below
#include <stdio.h>
float func(float age[]);
int main()
   float result, age[] = \{23.4, 55, 22.6, 3, 40.5, 18\};
   result = func(age);
   printf("%0.2f", result);
   return 0;
float func(float age[])
   int i;
   float result, sum = 0.0;
   for (i = 0; i < 6; ++i) {
      sum += age[i];
   result = (sum / 6);
   return result;
}
a) 27.08
b) 27.083334
oc) Compiler error as result is declared twice
d) Error: Invalid prototype declaration
No, the answer is incorrect.
Score: 0
Accepted Answers:
a) 27.08
```

```
1 point
What will be the output?
#include <stdio.h>
int main()
int i;
for (i=0; i<5; i++)
 int i = 10;
 printf ("%d ", i);
 i++;
```

- a) 10 11 12 13 14
- **b)** 01234

return 0;

- oc) 10 10 10 10 10
- od) Compilation Error

No, the answer is incorrect. Score: 0

Accepted Answers:

c) 10 10 10 10 10

7)

6)

```
How many times the function factorial will be executed?
 #include<stdio.h>
 int factorial(int);
 int main()
 int n=10;
 long int f;
 f = factorial(n);
 printf("%d! = %ld\n", n, f);
 return 0;
 int factorial(int n)
 if (n == 0)
 return 1;
 else
 return(n * factorial(n-1));
Hint
No, the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 11
                                                                 1 point
8)
                                                                 1 point
```

```
What will be the output?
 #include <stdio.h>
 void swap(int a, int b)
   int temp;
   temp = a;
   a = b;
   b = temp;
 int main()
   int num1 = 10, num2 = 20;
   printf("Before swapping num1 = \%d num2 = \%d\n", num1, num2);
   swap(num1, num2);
   printf("After swapping num1 = \%d num2 = \%d \n", num1, num2);
   return 0;
           Before swapping num1 = 10 \text{ num2} = 20
  a)
         After swapping num1 = 10 \text{ num2} = 20
          Before swapping num1 = 10 \text{ num2} = 20
  b)
         After swapping num1 = 20 \text{ num2} = 10
         Before swapping num1 = 10 num2 = 20
  \circ c)
         After swapping num1 = 20 num2 = 20
         Before swapping num1 = 10 num2 = 20
  \bigcirc d)
         After swapping num1 = 10 \text{ num2} = 10
No, the answer is incorrect.
Score: 0
Accepted Answers:
       Before swapping num1 = 10 num2 = 20
a)
       After swapping num1 = 10 num2 = 20
9)
                                                                     1 point
```

```
Consider the following C function definition:
int func(int a, int b, int c)
  if ((a > = b) && (c < b)) return b;
  else if (a > = b) return func(a,c,b);
  else return func(b,a,c);
The function func():
 (a) Finds the maximum of a, b, and c
 (b) Finds the minimum of a, b and c
 (c) Finds the middle number of a, b, c
 (d) None of the above
No, the answer is incorrect.
Score: 0
Accepted Answers:
(c) Finds the middle number of a, b, c
                                                                 1 point
   Consider the following C function definition.
   int f(int i)
    static int i = 50;
    int k:
    if(i == j)
      printf("something");
     k = f(i);
      return 0;
    else return 0;
  Which one of the following is TRUE?
 (a) The function returns 0 for all values of i.
 (b) The function prints the string something for all values of j.
 \circ (c) The function returns 0 when i = 50.
 (d) The function will exhaust the runtime stack or run into an
 infinite loop when i = 50
No, the answer is incorrect.
Score: 0
Accepted Answers:
```

(d) The function will exhaust the runtime stack or run into an infinite loop when j=50