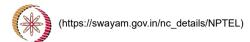
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NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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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 8: Assignment 8

The due date for submitting this assignment has passed.

Due on 2023-09-20, 23:59 IST.

Assignment submitted on 2023-09-15, 14:25 IST

) A function prototype is us	ca ioi

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
- Od) Telling the user for proper use of syntax while calling the function

Yes, the answer is correct.

Score: 1

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?

1 point

- a) void
- b) integer
- c) double
- d) float

Yes, the answer is correct.

Score: 1

Accepted Answers:

b) integer

Week 6 ()

Week 7 ()

Week 8 ()

- Lecture 36:
 More on
 Functions
 (unit?
 unit=77&lesso
 n=78)
- Lecture 37: Function (Contd.) (unit? unit=77&lesso n=79)
- Lecture 38:
 Scanf and
 Printf
 Functions;
 Function
 Prototype
 (unit?
 unit=77&lesso
 n=80)
- Lecture 39:
 Parameter
 Passing in
 Function
 Revision (unit?
 unit=77&lesso
 n=81)
- Lecture 40:
 Parameter
 Passing in
 Function
 Revision
 (Contd.) (unit?
 unit=77&lesso
 n=82)
- Quiz: Week 8: Assignment 8(assessment? name=253)
- Week 8 : Programming Assignment 1 (/noc23_cs121

```
3)
                                                                              1 point
      What will be the output?
      #include <stdio.h>
      int main()
       {
              int a = 70;
    {
              printf("%d", a);
        return 0;
  a) 70
  b) Garbage value
  c) Compilation error
  d) None
Yes, the answer is correct.
Score: 1
Accepted Answers:
c) Compilation error
4)
                                                                              1 point
      How many times will 'Hello world' be printed?
      #include<stdio.h>
      int main()
        printf("Hello world\n");
        main();
        return 0;
      }
  a) Infinite times
  b) 32767
```

- o) 65535
- d) Till stack overflows

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) Till stack overflows

/progassignme nt?name=256)

- Week 8:
 Programming
 Assignment 2
 (/noc23_cs121
 /progassignme
 nt?name=257)
- Week 8:
 Programming
 Assignment 3
 (/noc23_cs121
 /progassignme
 nt?name=258)
- Week 8:
 Programming
 Assignment 4
 (/noc23_cs121
 /progassignme
 nt?name=259)
- Feedback Form of Week 8 (unit? unit=77&lesso n=261)

Week 9 ()

DOWNLOAD VIDEOS ()

Books ()

Text
Transcripts ()

Problem Solving Session -July 2023 ()

```
5)
     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
  c) Infinite times
  d) Compilation error
 Yes, the answer is correct.
 Score: 1
 Accepted Answers:
 b) Zero times
6)
     How many times the function factorial will be executed?
      #include<stdio.h>
      int factorial(int):
      int main()
      int n=5;
      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));
      }
```

120

1 point

Hint

```
No. the answer is incorrect.
Score: 0
Accepted Answers:
(Type: Numeric) 6
7)
     What will be the output?
     #include<stdio.h>
     void func(int n, int sum)
     int k = 0, j = 0;
     if (n == 0) return;
             k = n \% 10;
     j = n / 10;
     sum = sum + k;
     func (j, sum);
     printf ("%d,", k);
     int main ()
     int a = 2048, sum = 0;
     func (a, sum);
     printf ("%d", sum);
      }
  a) 8,4, 0, 2, 14
  b) 8, 4, 0, 2, 0
  o) 2, 0, 4, 8, 14
  d) 2, 0, 4, 8, 0
Yes, the answer is correct.
```

Accepted Answers:

Score: 1

1 point

1 point

```
8)
                                                                               1 point
      What is the output of the following C program?
      #include <stdio.h>
      int fun(int n)
      {
         int i, j, sum = 0;
         for(i = 1; i \le n; i++)
           for(j=i; j<=i; j++)
              sum = sum + j;
        return(sum);
      int main()
        printf("%d", fun(10));
        return 0;
      }
  a) 55
  (b) 45
  c) 66
  (d) 10
Yes, the answer is correct.
Score: 1
Accepted Answers:
a) 55
9)
                                                                               1 point
Consider the function
int find(int x, int y)
        return((x < y) ? 0 : (x-y));
Let a and b be two non-negative integers. The call find(a, find(a, b)) can
be used to find the
  a) Maximum of a, b
  b) Positive difference between a and b
  c) Sum of a and b
  d) Minimum of a and b
Yes, the answer is correct.
Score: 1
Accepted Answers:
d) Minimum of a and b
```

```
10)
      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;
27.08
Hint
```

Yes, the answer is correct.

Score: 1

Accepted Answers: (Type: Numeric) 27.08

1 point