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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 8: Assignment 8

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-09-20, 20:47 IST

1) A function prototype is used for

1 point

- a) Declaring the function logic
- b) Calling the function from the main body
- o 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

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 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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```
1 point
3)
       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
```



```
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));
     }
5
```

1 point

Hint

No, the answer is incorrect. Score: 0 Accepted Answers: (Type: Numeric) 6

1 point

1 point

```
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
- (a) 2, 0, 4, 8, 0

Yes, the answer is correct.

Score: 1

Accepted Answers:

d) 2, 0, 4, 8, 0



```
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
  0 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

