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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 12 : Programming Assignment 1

Due on 2023-10-19, 23:59 IST

Write a program in C to find the factorial of a given number using pointers.

Private Test cases

used for evaluation	Input	Expected Output	Actual Output	Status
Test Case 1	15	The Factorial of 15 is : 1307674368000	The Factorial of 15 is : 1307674368000\n	Passed

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-10-18, 18:27 IST

Your last recorded submission was :

```

1 #include <stdio.h>
2 void findFact(int, long int*);
3 int main()
4 {
5     long int fact; //factorial of the number
6     int num1;
7     scanf("%d",&num1); //The number is taken from test data
8
9     findFact(num1, &fact);
10    printf("The Factorial of %d is : %ld\n",num1, fact);
11    return 0;
12 }
13 void findFact(int n, long int *f)
14 {
15     int i;
16     *f =1;
17     for(i=1;i<=n;i++)
18         *f=*f*i;
19 }
```

Sample solutions (Provided by instructor)

```
1 #include <stdio.h>
```

Week 8 ()**Week 9 ()****Week 10 ()****Week 11 ()****Week 12 ()**

☐ Lecture 56 :
Structure
(Contd.) (unit?
unit=109&less
on=110)

☐ Lecture 57 :
Structure with
typedef (unit?
unit=109&less
on=111)

☐ Lecture 58 :
Pointer (unit?
unit=109&less
on=112)

☐ Lecture 59 :
Pointer
(Contd.) (unit?
unit=109&less
on=113)

☐ Lecture 60 :
Pointer in
Structures
(unit?
unit=109&less
on=114)

☐ Lecture 61 :
Dynamic
Allocation and
File (unit?
unit=109&less
on=115)

☒ Quiz: Week 12
: Assignment
12
(assessment?
name=279)

☒ **Week 12 :
Programmin
g Assignment
1
(/noc23_cs12**

```

2 void findFact(int, long int*);
3 int main()
4 {
5     long int fact; //factorial of the number
6     int num1;
7     scanf("%d",&num1); //The number is taken from test data
8
9     findFact(num1, &fact);
10    printf("The Factorial of %d is : %ld\n",num1, fact);
11    return 0;
12 }
13 void findFact(int n, long int *f)
14 {
15     int i;
16
17     *f =1;
18     for(i=1;i<=n;i++)
19         *f=*f*i;
20 }

```

**1/progassignment?
name=280)**

☒ Week 12 :
Programming
Assignment 2
(/noc23_cs121
/progassignment?
name=281)

☒ Week 12 :
Programming
Assignment 3
(/noc23_cs121
/progassignment?
name=282)

☐ Week 12 :
Programming
Assignment 4
(/noc23_cs121
/progassignment?
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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