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



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Week 8: Programming Assignment 2

Due on 2023-09-21, 23:59 IST

Write a C Program to find power of a given number using recursion. The number and the power to be calculated is taken from test case

Private Test cases used for evaluation Input Expected Output Actual Output Status

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 ()

The due date for submitting this assignment has passed.

1 out of 1 tests passed.

You scored 100.0/100.

Assignment submitted on 2023-09-21, 20:11 IST

Your last recorded submission was :

```
1 #include <stdio.h>
   long power(int, int);
   int main()
 5
   int pow, num;
 6
   long result;
   scanf("%d", &num); //The number taken as input from test case data
10 scanf("%d", &pow); //The power is taken from the test case
   result = power(num, pow);
printf("%d^%d is %ld", num, pow, result);
11
13
   return 0;
14
   fong power(int num,int pow)
15
16
17
     if(pow)
18
19
        return (num*power(num,pow-1));
20
21
     return 1;
```

Week 8 ()

Week 9 ()

Week 10 ()

Week 11 ()

Week 12 ()

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```
Sample solutions (Provided by instructor)
```

```
1 #include <stdio.h>
 2 long power(int, int);
 3
4
5
6
7
    int main()
    int pow, num;
   long result;
 ,
8
9
    scanf("%d", &num); //The number taken as input from test case data
scanf("%d", &pow); //The power is taken from the test case
result = power(num, pow);
printf("%d^%d is %ld", num, pow, result);
13
    return 0;
14
15
    long power(int num, int pow)
16
    if (pow)
17
18
19 return (num * power(num, pow - 1));
20
20 }
21 return 1;
22 }
```

