

Section: Week-12-User-Defined

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MANISHA M 2024-CSE M2

REC-CIS

Week-12-User-Defined Functions

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Coding

◀ Assessment-11-String Handling Functions

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Coding

✓ Done

Re-attempt quiz

Attempts allowed: 4

Time limit: 1 hour 30 mins

Grading method: Highest grade

Your attempts

Attempt 1

Status Finished

Started Friday, 17 January 2025, 11:04 AM

Completed Friday, 17 January 2025, 11:08 AM

Duration 4 mins 23 secs

Review

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[Reset answer](#)

```

1  /*
2   * Complete the 'fourthBit' function below.
3   *
4   * The function is expected to return an INTEGER.
5   * The function accepts INTEGER number as parameter.
6   */
7
8  int fourthBit(int number)
9  {int binary[32];
10 int i=0;
11 while(number>0)
12 {
13     binary[i]=number%2;
14     number/=2;
15     i++;
16 }
17 if(i>=4)
18 {
19     return binary[3];
20 }
21 else return 0;
22
23 }

```

| Test | Expected | Got |
|-------------------------------|----------|-----|
| ✓ printf("%d", fourthBit(32)) | 0 | 0 ✓ |
| ✓ printf("%d", fourthBit(77)) | 1 | 1 ✓ |

Passed all tests! ✓

Question 2

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the n^{th} element of the list, sorted ascending. If

Reset answer

```
1  /*
2   * Complete the 'pthFactor' function below.
3   *
4   * The function is expected to return a LONG_INTEGER.
5   * The function accepts following parameters:
6   * 1. LONG_INTEGER n
7   * 2. LONG_INTEGER p
8   */
9
10 long pthFactor(long n, long p)
11 {
12     int count=0;
13     for(long i=1;i<=n;i++)
14     {
15         if(n%i==0)
16         {
17             count++;
18             if(count==p)
19             {
20                 return i;
21             }
22         }
23     }
24 }
```

| Test | Expected | Got |
|-----------------------------------|----------|-----|
| ✓ printf("%ld", pthFactor(10, 3)) | 5 | 5 ✓ |
| ✓ printf("%ld", pthFactor(10, 5)) | 0 | 0 ✓ |
| ✓ printf("%ld", pthFactor(1, 1)) | 1 | 1 ✓ |

Passed all tests! ✓

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Week-12-Recursive Functions

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✓ Done

Re-attempt quiz

Attempts allowed: 4

Time limit: 1 hour 30 mins

Grading method: Highest grade

Your attempts

Attempt 1

| | |
|-----------|-----------------------------------|
| Status | Finished |
| Started | Friday, 17 January 2025, 12:01 PM |
| Completed | Friday, 17 January 2025, 12:40 PM |
| Duration | 39 mins 8 secs |

Review

◀ Coding

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Week-13-Passing Arrays and Strings to Functions ▶



Reset answer

```
1  /*
2   * Complete the 'myFunc' function below.
3   *
4   * The function is expected to return an INTEGER.
5   * The function accepts INTEGER n as parameter.
6   */
7 #include<stdio.h>
8 int myFunc(int n)
9 {
10     while(n > 1)
11     {
12         if(n % 10 == 0){
13             n /= 10;
14         }
15         else if(n % 20 == 0){
16             n /= 20;
17         }
18         else{
19             return 0;
20         }
21     }
22     return (n == 1) ? 1 : 0;
23 }
```

| Test | Expected | Got | |
|----------------------------|----------|-----|---|
| ✓ printf("%d", myFunc(1)) | 1 | 1 | ✓ |
| ✓ printf("%d", myFunc(2)) | 0 | 0 | ✓ |
| ✓ printf("%d", myFunc(10)) | 1 | 1 | ✓ |
| ✓ printf("%d", myFunc(25)) | 0 | 0 | ✓ |

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Answer: (penalty regime: 0 %)

Reset answer

```
1  /*
2  * Complete the 'powerSum' function below.
3  *
4  * The function is expected to return an INTEGER.
5  * The function accepts following parameters:
6  * 1. INTEGER x
7  * 2. INTEGER n
8  */
9 #include<math.h>
10 int powerSum(int x, int m, int n)
11 {
12     int power=pow(m,n);
13
14     if(power>x)
15         return 0;
16     if(power==x)
17         return 1;
18
19     return powerSum(x-power,n,m+1)+powerSum(x,n,m+1);
20 }
21 int main()
22 {
23     int x,n;
24     scanf("%d %d",&x,&n);
25     printf("%d",powerSum(x,n,1));
26     return 0;
27 }
```



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