

REC-CIS

Explanation 1

- Convert the decimal number 77 to binary number: $77_{10} = (1001101)_2$.
- The value of the 4th index from the right in the binary representation is 1.

Answer: (penalty regime: 0 %)

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 {
10     int binary[32];
11     int i = 0;
12     while (number > 0)
13     {
14         binary[i] = number % 2;
15         number /= 2;
16         i++;
17     }
18     if (i >= 4)
19     {
20         return binary[3];
21     }
22 }
```

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```
11 int i = 0;
12 while (number > 0)
13 {
14     binary[i] = number % 2;
15     number /= 2;
16     i++;
17 }
18 if (i >= 4)
19 {
20     return binary[3];
21 }
22 else
23     return 0;
24
25 }
```

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

Passed all tests! ✓

Question 2
Correct
Marked out of 4.00

Determine the factors of a number (i.e., all positive integer values that evenly divide into a number) and then return the p^{th} element of the list, sorted ascending. If there is no p^{th} element, return 0.

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Explanation 2

Factoring $n = 1$ results in {1}. The $p = 1$ st factor of 1 is returned as the answer.

Answer: (penalty regime: 0 %)

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     }
```

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```
14 {
15     if (n % i == 0)
16     {
17         count++;
18         if (count == p)
19         {
20             return i;
21         }
22     }
23 }
24 return 0;
25 }
26 }
```

	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! ✓

Finish review

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REC-CIS

1

SAMPLE INPUT

2

SAMPLE OUTPUT

0

Answer: (penalty regime: 0 %)

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
8 int myFunc(int n)
9 {
10     return n==1 || n%10==0;
11 }
12 }
```

Week 12 Coding Attempt review | REC-CIS - Google Chrome

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```
8 int myFunc(int n)
9 {
10     return n==1 || n%10==0;
11 }
12
13
```

	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	✓
✓	printf("%d", myFunc(200))	1	1	✓

Passed all tests! ✓

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$(1 + 8 + 27 + 64 = 100)$. There is no other way to express **100** as the sum of cubes.

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 p=pow(m,n);
13     if(p==x)
14     {
15         return 1;
16     }
17     if (p>x)
18     {
19         return 0;
20     }
21     return powerSum(x-p,m+1,n)+powerSum(x,m+1,n);
22 }
23 }
```

Week 12 Coding Attempt review | REC-CIS - Google Chrome

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REC-CIS

```
7  * 2. INTEGER n
8  */
9  #include<math.h>
10 int powerSum(int x, int m, int n)
11 {
12     int p=pow(m,n);
13     if(p==x)
14     {
15         return 1;
16     }
17     if (p>x)
18     {
19         return 0;
20     }
21     return powerSum(x-p,m+1,n)+powerSum(x,m+1,n);
22 }
23 }
```

	Test	Expected	Got	
✓	printf("%d", powerSum(10, 1, 2))	1	1	✓

Passed all tests! ✓

Finish review

Type here to search

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