Explanation:

GE23131-Programming Using C-2024

Started Completed	Finished Monday, 23 December 2024, 5:33 PM Tuesday, 3 December 2024, 1:56 PM 20 days 3 hours
Question	1
Correct Marked out o Flag quest	
Question te	xt
he k-digit n	umber N is an Armstrong number if and only if the k-th power of each digit sums to N.
Given a posit	tive integer N, return true if and only if it is an Armstrong number.
Example 1:	
nput:	
53	
Output:	
rue	
Explanation:	
53 is a 3-diç	git number, and $153 = 1^3 + 5^3 + 3^3$.
Example 2:	
nput:	
23	
Output:	
alse	

123 is a 3-digit number, and 123 $!= 1^3 + 2^3 + 3^3 = 36$.

Example 3:

Input:

1634

Output:

true

Note:

1 <= N <= 10^8

Answer:(penalty regime: 0 %)

```
1 #include <stdio.h>
   #include<math.h>
3
4 * int main(){
5
        int n,a,p=0,t,sum=0,x;
        scanf("%d",&n);
6
7
        t=n;
8
        a=n;
9 .
        while(t!=0){
10
            t=t/10;
11
            p++;
12
        while(n!=0){
13 -
14
            x=n%10;
15
            sum=sum+pow(x,p);
16
            n=n/10;
17
18 -
        if(sum==a){
            printf("true");
19
20 -
        }else{
            printf("false");
21
22
23
        return 0;
24
25
26
27 }
```

Feedback

Input Expected Got

```
153 true true
123 false false
```

Passed all tests!

Question 2

Correct

Marked out of 5.00

Flag question

Question text

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=99999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066 Answer:(penalty regime: 0 %)

```
1 #include <stdio.h>
 2 * int main(){
 3
        long long int num, sum, rev, tempnum, tempsum;
 4
        scanf("%lld",&num);
 5 🏻
        while(1){
 6
            rev=0:
 7
            tempnum=num;
 8 =
            while(num){
 9
                 rev=rev*10+(num%10);
10
                 num=num/10;
11
            }
12
            sum=tempnum+rev;
            tempsum=sum;
13
14
            rev=0;
15 -
            while(sum){
16
                 rev=rev*10+(sum%10);
17
                 sum=sum/10;
18
                 }if(tempsum==rev)
19
                 break:
20
                 num=tempsum;
21
22
23
        printf("%lld",tempsum);
24
25
        return 0;
26
   }
```

Feedback

Input Expected Got

```
32 55 55
789 66066 66066
```

Passed all tests!

Question 3

Correct

Marked out of 7.00

Flag question

Question text

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. Write a program to print the nth lucky number. Example, 1st lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are not lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as output.

Sample Input 1:

3

Sample Output 1:

Explanation:

Here the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.

Sample Input 2:

34

Sample Output 2:

33344

```
Answer:(penalty regime: 0 %)
```

```
1 #include <stdio.h>
 2 * int main(){
        long int i,j;
3
 4
        int rem,n,count=0;
 5
        int flag;
 6
        scanf("%d",&n);
 7 .
        for(i=1;count<=n;i++){</pre>
8
            flag=0;
9
            j=i;
10 -
            while(j>0){
11
                 rem=j%10;
12
                 if(rem==3||rem==4)
13
                 j=j/10;
14 =
                 else{
15
                     flag=1;
16
                     break;
17
18
19 -
            if(flag==0){
20
                 count++;
21
                 if(count==n)
22
                 break;
23
            }
24
    printf("%ld",i);
25
26
   return 0;
27
   }
```

Feedback

Input Expected Got

```
34 33344 33344
```

Passed all tests!

Finish review

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