GE23131-Programming Using C-2024



Status	Finished	
Started		
Completed		
Duration		
Question 1 Correct Marked out of	The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.	
Flag question	Given a positive integer N, return true if and only if it is an Armstrong number.	
	Example 1:	
	Input:	
	153	
	Output:	
	true	
	Explanation:	
	153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3. Example 2:	
	Input:	
	123	
	Output:	
	false	
	Explanation:	
	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 %)

```
#include<stdio.h>
 2
    #include<math.h>
 3
 4 ▼
    int main(){
 5
         int n,count=0,arm;
 6
         scanf("%d",&n);
         int n1=n;
 7
 8 ,
         while(n1!=0){
 9
             count+=1;
10
             n1=n1/10;
11
         int n2=n,a;
12
         for(int i=1;i<=count;i++){</pre>
13
14
             a=n2%10;
15
             arm=arm+pow(a,count);
16
             n2=n2/10;
17
18
         if(arm==n){
19
             printf("true");
20
21
22
         else{
             printf("false");
23
24
25
         return 0;
26
27
28
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Passed all tests! ✓

Question **2**Correct

Marked out of 5.00

▼ Flag question

Answer: (penalty regime: 0 %)

```
9
                 temp=a%10;
                 c=c*10+temp;
10
11
                 a/=10;}
12
                 d+=c;f=d;b=0;
                 while(d>0){
13
                     temp =d\%10;
14
15
                      b=b*10+temp;
16
                      d/=10;
17
                 if(f==b){
18
19
                      printf("%ld",f);
20
                      cc=1;
21
                 }
22
                 else{
23
                      a=f;
24
25
             while(!cc);
26
27
             return 0;
28
29
30
31
32
```

		Input	Expected	Got	
	~	32	55	55	~
	~	789	66066	66066	~

Passed all tests! <

Question **3**Correct
Marked out of 7.00

Flag question

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:

33

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 v int main(){
         int a,c=0;long int n=0;
scanf("%d",&a);
 3
 4
         while(c<a){
 5 ,
 6
             n++;
             long int temp=n;
 7
 8
             int l=1;
             while(temp>0){
 9 ,
10
                  int d=temp%10;
11 🔻
                  if(d!=3 && d!=4){
                      1=0;
12
13
                      break;
14
15
                 temp/=10;
16
17 ,
             if(1){
18
19
20
         printf("%ld",n);
21
22
         return 0;
23
```

	Input	Expected	Got	
~	34	33344	33344	~

Passed all tests! <