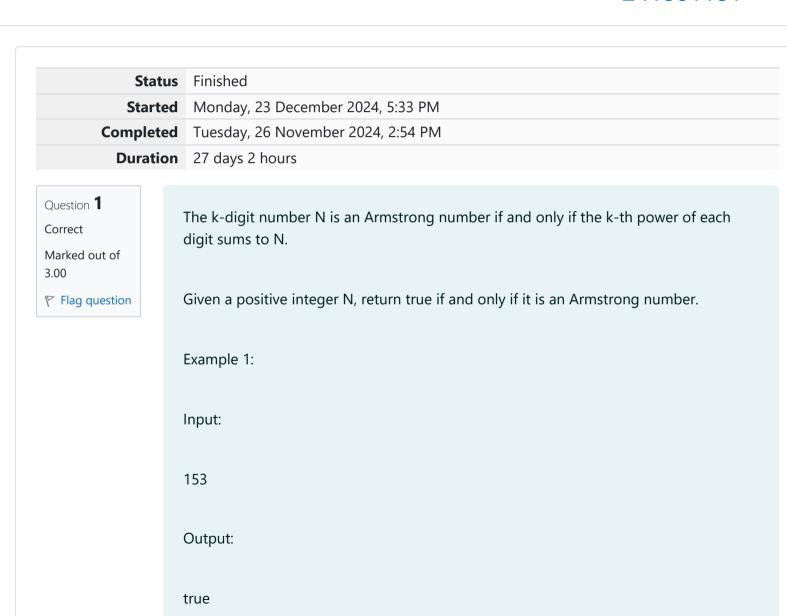
GE23131-Programming Using C-2024

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Explanation:

	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	

```
1 <= N <= 10^8
Answer: (penalty regime: 0 %)
      #include<stdio.h>
      #include<math.h>
    2
    3 v int main(){
    4
           int n,d,count=0,arm=0;
           scanf("%d",&n);
    5
           d=n;
   7 1
           while(d!=0){
               count++;
    8
    9
               d/=10;
   10
           d=n;
   11
           for(int i=1;i<=count;i++){</pre>
   12 🔻
   13
               int c = d\%10;
   14
               arm=arm+pow(c,count);
   15
               d=d/10;
   16
   17 🔻
           if(arm==n){
               printf("true");
   18
   19
           else{
   20 🔻
               printf("false");
   21
   22
   23 }
```

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

Question **2**

Correct

Marked out of 5.00

Flag question

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
    int rev(int);
    int pal(int);
 4
    int main(){
 5 🔻
         int n,c=0;
 6
 7
         scanf("%d",&n);
 8 1
         while(c==0){
             int f = rev(n);
 9
             c = pal(f);
10
             n = f;
11
12
13
14
    int pal(int a){
15
         int pa=0,b;
16
17
         b=a;
18 🔻
         while(b!=0){
             pa = pa*10 + b%10;
19
20
             b/=10;
21
22 1
         if(pa==a){
             printf("%d",a);
23
             return 1;
24
25
         else{
26 •
             return 0;
27
28
29
    int rev(int a){
30 ▼
31
         int re=0,b;
32
         b=a;
         - I- - 1 - / I- I - 0 \ C
```

```
36
37 }
38 return a+re;
39 }
```

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

Passed all tests! <

Question $\bf 3$

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

11

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 v int main(){
3    long int i,j;
4    int r,n,c=0,f;
5    scanf("%d",&n);
6 v   for(i=1;c<=n;i++){
7        f=0;
8        j=i;
9 v       while(j>0){
10        r = j%10;
11 v       if(r=3 | | r==4){
```

```
f=1;
 15
                     break;
 16
 17
 18
              if(f==0){
 19 🔻
 20
                 C++;
                 if(c==n){
 21 🔻
                     break;
 22
 23
 24
 25
 26
          printf("%ld",i);
 27
 28
 29
 30
     Input Expected Got
     34
            33344
                      33344
Passed all tests! ✓
                                                               Finish review
```