Question **1**Correct
Marked out of 3.00

Flag question

The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.
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:	

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

```
1 |#include<stdio.h>
     #include<math.h>
 2
 3 * int main(){
         int n;
scanf("%d",&n);
 4
 5
         int x=0,n2=n;
while(n2!=0){
 6
 7
 8
              X++;
              n2=n2/10;
 9
10
          int sum=0;
11
         int n3=n,n4;
while(n3!=0){
    n4=n3%10;
12
13 •
14
15
              sum=sum+pow(n4,x);
16
              n3=n3/10;
17
         if(n==sum){
   printf("true");
18
19
20
21
          else{
              printf("false");
22
23
          return 0;
24
25 }
```

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~
asse	ed all tes	ts! 🗸		

Question **2**Correct
Marked out of 5.00

F Flag question

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 %)

```
#include<stdio.h>
int main(){
    int n,rn,nt=0,i=0;
    scanf("%d",%n);
    do{
        nt=n;
        rn=0;
        while(n!=0){
            rn=rn*10+n%10;
            n=n/10;
            rit n;
            rit n;
```

	cted Got	
/ 32 55	55	~
789 6606	66066	56 🗸

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.

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:

e program should accept a number 'n' as input and display the nth lucky number as output.	
nple Input 1:	
nple Output 1:	
planation:	
re the lucky numbers are 3, 4, 33, 34., and the 3rd lucky number is 33.	
nple Input 2:	
nple Output 2:	
344	

```
Answer: (penalty regime: 0 %)
   1 #include<stdio.h>
        int main(){
            int n,i=0,t,s=0,j=1;
scanf("%d",&n);
while(i<n){</pre>
    3
    4
    5
                 t=j;
while(t!=0){
    6
    7 ,
                     s=0;
if(t%10!=4 && t%10!=3){
    8
    9 1
                          s=1;
break;
   10
   11
   12
                      t=t/10;
   13
   14
   15
                 if(s==0){
   16
                      i++;
   17
   18
                 j++;
   19
             printf("%d",j-1);
   20
   21
             return 0;
   22 }
```

