Question 1
Correct
Marked out of 3.00
Flag question
Question text
The k-digit number N is an Armstrong number if and only if the k-th power of each digit sums to N.
The k digit hamber in is an Armstrong number if and only if the k th power of each digit sums to is.
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>
#include<math.h>
int main() {
  int n;
 scanf("%d",&n);
 int x=0,n2=n;
 while(n2!=0) {
```

x++;

```
n2=n2/10;
  }
  int sum=0;
  int n3=n,n4;
  while(n3!=0) {
    n4=n3%10;
    sum=sum+pow(n4,x);
    n3=n3/10;
  }
  if(n==sum) {
    printf("true");
  }
  else {
    printf("false");
  }
}
```

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 %)
#include<stdio.h>
int main() {
  int rn,n,nt=0,i=0;
  scanf("%d",&n);
  do{
    nt=n,rn=0;
    while(n!=0) {
      rn=rn*10+n%10;
      n=n/10;
    }
    n=nt+rn;
    i++;
  }
  while(rn!=nt | | i==1);
  printf("%d",rn);
}
```

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:
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 %)

```
#include<stdio.h>
int main() {
  int n=1,i=0,nt,co=0,e;
  scanf("%d",&e);
  while(i<e) {
    nt=n;
    while(nt!=0) {
      co=0;
      if(nt%10!=3 && nt%10!=4) {
        co=1;
        break;
      }
      nt=nt/10;
    }
    if(co==0) {
      i++;
    }
    n++;
  }
  printf("%d",--n);
}
```

Feedback

Input	Expected	Got	
34	33344	33344	