Question **1**Correct
Marked out of 3.00

Figure 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
```

153 is a 3-digit number, and 153 = 1^3 + 5^3 + 3^3.

Explanation:

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

Take a number, reverse it and add it to the original number until the obtained number is a palindrome. Constraints 1<=num<=999999999 Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```
1 |#include <stdio.h>
     int main()
           int rn, n, nt=0, i= 0;
scanf("%d", &n);
 4
5
 6
7
 8
                 nt =n;
                rn = 0;
while(n!=0)
10
               {
    rn= rn*10 + n%10;
    n = n/10;
11
12
13
14
15
                 n = nt + rn;
16
17
18
           while(rn!=nt || i==1);
printf("%d", rn);
return 0;
19
20
21
22 }
```

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

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

```
#include <stdio.h>
 2 int main()
3 v {
           int n=1, i=0, nt, co=0, e;
scanf("%d", &e);
while(i<e)</pre>
4
5
6
7
                nt=n;
while(nt!=0)
 9
               {
co=0;
10
11
12
13
                    if(nt%10 != 3 && nt%10!= 4)
                    {
co=1;
break;
14
15
16
17
                     nt= nt/10;
18
19
                if(co==0) i++;
20
                n++;
21
22
23
24
25
           printf("%d", --n);
return 0;
     }
```