REC-CIS

GE23131-Programming Using C-2024

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Started	Monday, 23 December 2024, 5:33 PM
Completed	Tuesday, 17 December 2024, 4:28 PM
Duration	6 days 1 hour

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 sum

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

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1 <= N <= 10^8

Answer: (penalty regime: 0 %)

```c
#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");
    }
}
```

	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 pa
Sample Input 1 32 Sample Output 1 55 Sample Input 2 789 Sample Output 2 66066

Answer: (penalty regime: 0 %)

```c
#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);
    return 0;
}
```

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	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 lucky number is 3, and 2nd lucky number is 4 and 3rd lucky number is 33 and 4th lucky numb lucky as they have other numbers in it.

The program should accept a number 'n' as input and display the nth lucky number as outpu

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)
```

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```
24          n++;
25      }
26      printf("%d", --n);
27      return 0;
28  }
```

	Input	Expected	Got	
	34	33344	33344	

Passed all tests!