REC-CIS

GE23131-Programming Using C-2024

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Status	Finished
Started	Monday, 23 December 2024, 5:33 PM
Completed	Friday, 29 November 2024, 9:08 AM
Duration	24 days 8 hours

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 o

Given a positive integer N, return true if and only if it is an Armstrong numbe

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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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\n");
    }
    else{
      printf("false");}
      return 0;}
```

	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 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);
   return 0;
}
```

	Input	Expected	Got	
	32	55	55	
	789	66066	66066	

Passed all tests!

Question **3**

Correct

Marked out of 7.00

A number is considered lucky if it contains either 3 or 4 or 3 and 4 both in it. W number is 33 and 4th lucky number is 34 and so on. Note that 13, 40 etc., are

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Flag question

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

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);
return 0;
}
```

	Input	Expected	Got	
	34	33344	33344	

Passed all tests!

Save the state of the flags