WEEK 5:02

Question 1
Correct
Marked out of 3.00
F Flag

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:
1 <= N <= 10^8

```
int n,k=0,a=0;
scanf("%d",%n);
int n1=n,n2=n;
while(n1>0){
k+=1;
n1/=10;
                                                                      4 5 6 7 8 9 18 11 12 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 }
                                                                                   }
while(n2>0){
    int b=n2%10,c=1;
    for(int i=1;ic=k;i++)
    {
        c==b;
                                                                                        a+=c;
n2=n2/10;
                                                                                   {
    printf("false");
        RESULT
                                                                      | Input | Expected | Got |

✓ 153 | true | true | ✓ |

✓ 123 | false | false | ✓
                                                                    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
                                                                     SOURCE CODE
                                                                                    long long int n,s,rev,temp1,temp2; scenf("%lid",&n); while(1){ temp1-n,rev=0; while(n){ rev=rev=10+(n%10); n=n/10;
                                                                                         }
s=temp1+rev;
temp2=s,rev=0;
while(s){
    rev=rev*10+(s%10);
    s=s/10;
}
                                                                  22
23
24
25
26
27
                                                                RESULT
                                                                Here the lucky numbers are 3, 4, 33, 34, and the 3rd lucky number is 33.
                                                                34
                                                                Sample Output 2:
```

33344

