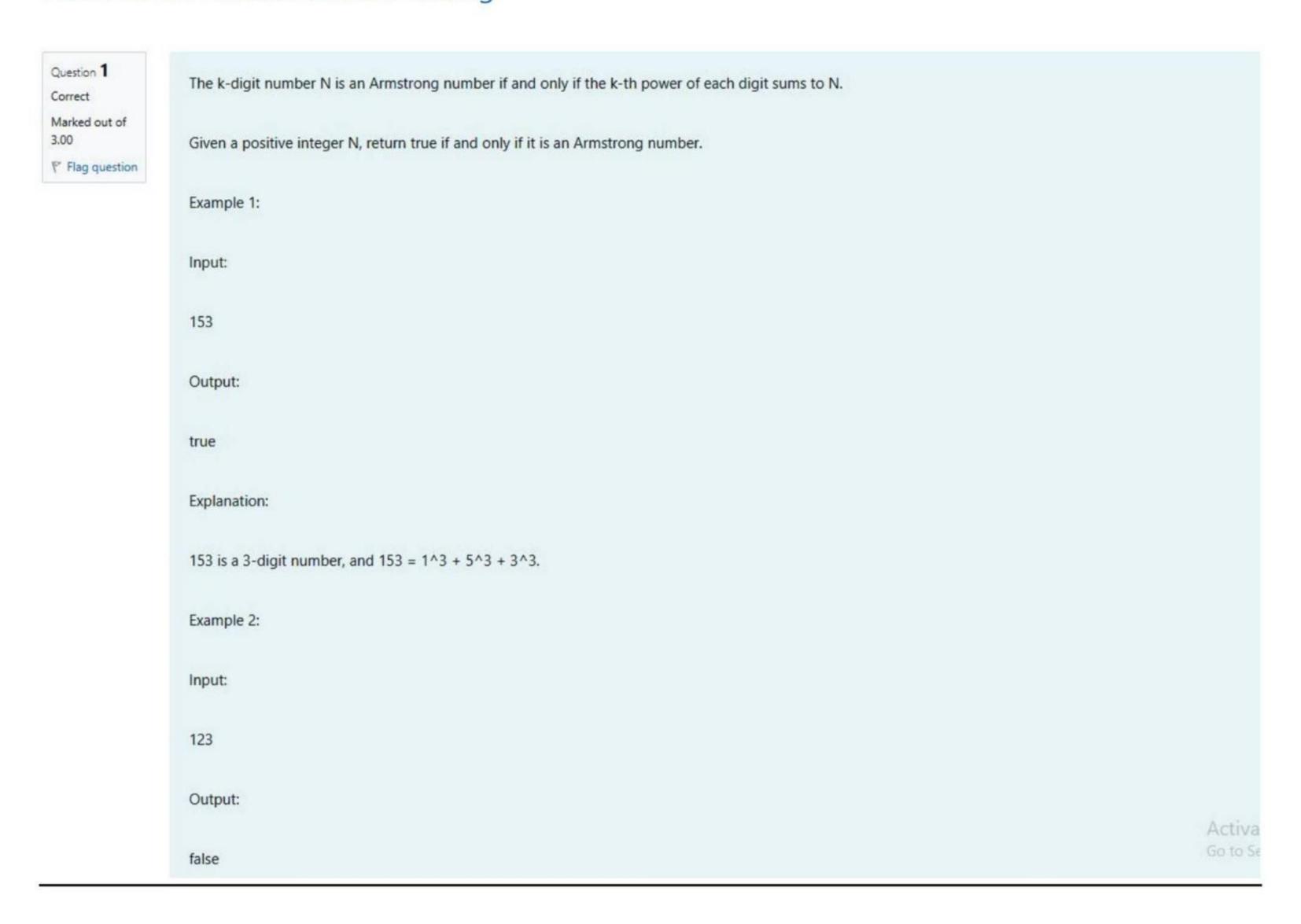
Week-05-Nested Loops - while and for, Jumps in Loops

Week-05-02-Practice Session-Coding



Source code

```
Answer: (penalty regime: 0 %)
```

```
#include<stdio.h>
    #include<math.h>
 4 * int main(){
        int k,original,count=0,sum=0;
 6
        scanf("%d",&k);
        original=k;
 8
        while(k>0){
9 +
            count++;
10
            k/=10;
11
12
        k=original;
13
        while(k>0){
14 *
            int t=k%10;
15
            sum+=pow(t,count);
16
            k/=10;
17
18
19
20 +
        if(original==sum){
21
            printf("true");
22
        else{
23 +
            printf("false");
24
25
        return 0;
26
27
```

Result

	Input	Expected	Got	
~	153	true	true	~
~	123	false	false	~

Question 2
Correct
Marked out of

Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
   int main(){
        long long int n,s,rev,temp1,temp2;
4
        scanf("%lld",&n);
        while(1){
 6 +
            temp1=n,rev=0;
            while(n){
8 +
                rev=rev*10+(n%10);
10
                n=n/10;
11
            s=temp1+rev;
12
13
            temp2=s,rev=0;
            while(s){
14 *
                rev=rev*10+(s%10);
15
                s=s/10;
16
17
            if((temp2==rev)){
18 +
                break;
19
20
            n=temp2;
21
22
        printf("%lld",temp2);
23
        return 0;
24
25
```

Result

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

Passed all tests! <

Question 3 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 Correct 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. Marked out of 7.00 The program should accept a number 'n' as input and display the nth lucky number as output. P Flag question 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

Source code

Answer: (penalty regime: 0 %)

```
#include<stdio.h>
1
 3 * int islucky(int num){
        while(num>0){
4 +
            int digit=num%10;
            if(digit!=3 && digit!=4){
 6 +
                return 0;
8
            num/=10;
9
10
        return 1;
11
12
13
14 v int findnthlucky(int n){
15
        int count=0, num=1;
16
        while(1){
17 v
            if(islucky(num)){
18 +
                 count++;
19
20 +
                 if(count==n){
21
                     return num;
22
23
24
            num++;
25
26
27
28 - int main(){
29
        int n;
30
        scanf("%d",&n);
31
32
        printf("%d",findnthlucky(n));
33
34
35
        return 0;
36
```

Result

