Status	Finished
Started	Monday, 3 November 2025, 5:48 PM
Completed	Monday, 3 November 2025, 7:05 PM
Duration	1 hour 16 mins

Question **1**

Correct

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

Answer: (penalty regime: 0 %)

```c
#include <stdio.h>
#include <math.h>
int main()
{
long long int num, sum = 0, nod = 0, rem,temp;
scanf("%lld", &num);
temp = num;
while(num>0)
{
nod++;
num = num/10;
}
num = temp;
while(num>0)
{
rem = num%10;
sum = sum + pow(rem, nod);
num = num/10;
}

if(sum == temp)
printf("true");
else
printf("false");
return 0;
}
```

	Input	Expected	Got	
⊘	153	true	true	⊘
⊘	123	false	false	⊘

Passed all tests! ⊘

Question **2**

Incorrect

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

For example:

Input	Result
32	55
1234	5555

Answer: (penalty regime: 0 %)

```c
1  #include <stdio.h>
2  int main()
3  {
4      long long int num,sum,revnum,tempnum,tempsum;
5
6      scanf(" %lld", &num);
7      while(1)
8      {
9          revnum = revnum*10 * (num%10);
10         num = num/10;
11     }
12     sum = tempnum + revnum;
13     tempsum = sum;
14     revnum = 0;
15
16     while(sum)
17     {
18         revnum = revnum*10 + (sum%10);
19         sum = sum/10;
20     }
21     if(tempsum == revnum)
22     break;
23     num=tempsum;
24  }
```

```
25 printf(" %lld", tempsum);
26 return 0;
27 }
```

Syntax Error(s)

```
__tester__.c: In function 'main':
__tester__.c:22:5: error: break statement not within loop or switch
   22 |     break;
      |     ^~~~~
__tester__.c: At top level:
__tester__.c:25:8: error: expected declaration specifiers or '...' before string co
   25 | printf(" %lld", tempsum);
      |        ^~~~~~~
__tester__.c:25:17: error: unknown type name 'tempsum'
   25 | printf(" %lld", tempsum);
      |                 ^~~~~~~
__tester__.c:26:1: error: expected identifier or '(' before 'return'
   26 | return 0;
      | ^~~~~~
__tester__.c:27:1: error: expected identifier or '(' before '}' token
   27 | }
      | ^
```

Question **3**

Incorrect

Maya, a student in an arts and crafts class, wants to create a pattern using stars (*) in a specific format. She plans to use a program to help her construct the pattern.
 Write a program that takes an integer as input and constructs the following pattern using nested for loops.

Input: 5

Output:
```
*

* *

* * *

* * * *

* * * * *

* * * *

* * *

* *

*
```

Answer: (penalty regime: 0 %)

```c
1  #include <stdio.h>
2  int main(){
3      int i,j;
4      int num_rows = 5;
5
6      for (i = 1; i <= num_rows; i++) {
7          for (j = i; j<num_rows; j++ ){
8              printf(" ");
9
10         }
11         for(j = 1; j<=i; j++){
12             printf("*");
13
14         }
15         printf("\n");
16
17     }
18
19     for(i = num_rows - 1; i >= 1; i--){
20         for(j = num_rows; j > i; j--){
21             printf(" ");
22         }
23         for(j =  1; j <= i; j++){
24             printf("*");
25         }
26         printf("\n");
27     }
28     return 0;
29 }
```

	Input	Expected	Got	
⊗	5	* *	* ** *** **** ***** **** *** ** *	⊗

Some hidden test cases failed, too.

Your code must pass all tests to earn any marks. Try again.

Show differences