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ROLL NO.:240801174

Name: Lavanya.S

| Status | Finished |
|-----------|-------------------------------------|
| Started | Monday, 23 December 2024, 5:33 PM |
| Completed | Tuesday, 26 November 2024, 10:07 PM |
| Duration | 26 days 19 hours |

Q1) 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.

Note: 1 <= N <= 10^8

Hint: 153 is a 3-digit number, and $153 = 1^3 + 5^3 + 3^3$.

Sample Input:

153

Sample Output:

true

Sample Input:

123

Sample Output:

false

Sample Input:

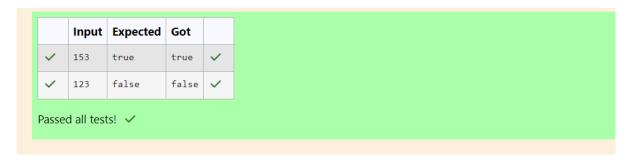
1634

Sample Output:

True

Code:

OUTPUT:



Q2) 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

Code:

OUTPUT:

| | Input | Expected | Got | |
|--------|------------|----------|-------|---|
| ~ | 32 | 55 | 55 | ~ |
| ~ | 789 | 66066 | 66066 | ~ |
| Passed | d all test | s! 🗸 | | |

Q3) 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 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.

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

Sample Input 1:

Sample Output 1:

33

Code:

OUTPUT:

| put Expected G | Got |
|----------------|---------|
| 33344 33 | 33344 🗸 |
| II tests! ✓ | |