Foundations & Data Structures With C++



Assignment 3 - Programming Fundamentals 2

- 1. Write a Program to determine if the input number is Armstrong number or not.
- 2. Program to determine if a number is palindrome or not.
- 3. Given an integer n, print the number of trailing zeroes in n factorial i.e. n!.
- 4. Given an integer, replace all the '0' with '5' in the integer.

E.g. Input : 102 Output : 152.

- 5. Print all leap years between 2000 & 3000 (both inclusive).
- 6. Input consists of n numbers. Print whether those n numbers form an arithmetic progression or not. Examples -

a. 2 6 10 14 18 22 Output : Yes b. 2 6 10 15 19 23 Output : No

- 7. Given a non negative integer A, print all pair of integers (a, b) such that
 - a. a and b are positive integers
 - b. $a \le b$, and
 - c. $a^2 + b^2 = A$.
 - d. $0 \le A$
- 8. Print the following pattern. e.g. for n = 5