



2C: Programming Fundamentals

Batch Launchpad (C++ Foundation)

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 $n!$.
4. Given a integer as a input and replace all the '0' with '5' in the integer. e.g.
Input-102 should output 152.
5. Print all leap years b/w 2000 & 3000 (both inclusive).
6. Input consists of 'n' numbers. Print whether those 'n' numbers form an arithmetic progression or not. examples:
 - a. 2 2 6 10 14 18 22 o/p : yes
 - b. 2 2 6 10 15 19 23 o/p: no
7. Given a non negative integer A , print all pair of integers (a, b) such that
 - a and b are positive integers
 - $a \leq b$, and
 - $a^2 + b^2 = A$.
 - $0 \leq A$
8. Print the following pattern. e.g. for $n = 5$

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1         1
12        21
123       321
1234      4321
1234554321
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