

# C and Embedded C programming

## Week 3 Assignments

*Presented by :*

*Eng. Mohamed Taha Gabriel*



# Assignment 1

- ▶ Write a function to check whether the number is perfect or not.
  - ▶ Where: A perfect number the sum of all divisible numbers between 1 and the number equals the actual number.
- ▶ Write a program to print all the arm strong numbers between two given limits.

*Perfect Number :*

Divisor of 28 : 1, 2, 4, 7, 14, 28

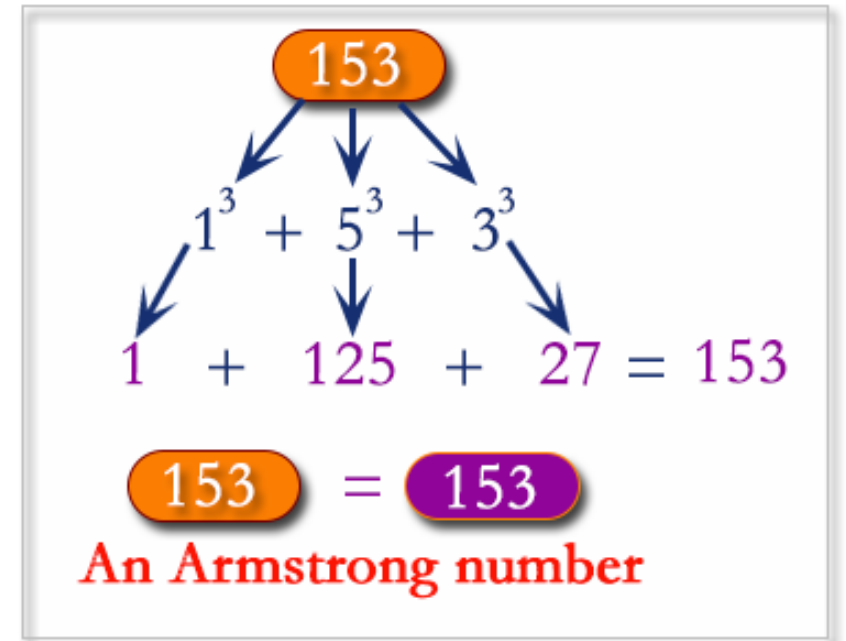
Sum of  $1 + 2 + 4 + 7 + 14 = 28$

Sum = Original Number

*28 is Perfect number*

# Assignment 2

- ▶ Write a function to check whether the number is Armstrong or not.
  - ▶ Where: Armstrong number the sum of its digits cubes equals the actual number.
- ▶ Write a program to print all the Armstrong numbers between two given limits.



# Assignment 3

- Write a c program to count a total number of duplicate elements in an array

Count a total number of duplicate elements in an array

