

- A. print Fibonacci series up to n numbers.
- B. Find whether the number is prime or not.
- C. Find sum of 1-n numbers.
- D. Find GCD of 2 numbers.
- E. Reverse the digits.
- F. Sum the individual digits of number, product individual digits of number.
- G. Find binary of a decimal integer.
- H. Find complement of decimal integer.
- I. Find number factors of a number.
- J. Print the number of common factors, 2 integer number shares.
- K. Find the n to the power m value.
  - ✚ For example:  $n = 4, m = 3$  then  $n^m = 4^3 = 4 * 4 * 4 = 64$ .
  - ✚ For example:  $n = 2, m = 5$  then  $n^m = 2^5 = 2 * 2 * 2 * 2 * 2 = 64$ .
- L. Find how many times 7 number repeats in an integer
  - ✚ For example: number=10012 then answer=0 because there is no 7 in number.
  - ✚ For example: number=17197 then answer=2 because 8 repeats 2 times in number (18198).
- M. Find how many times 24 repeats in an integer.
  - ✚ You got it right!
- N. Program to find factorial of given number.
- O. Find the number of digits an integer has.
  - ✚ 134 -> 3 digits.
  - ✚ 1232 -> 4 digits.
- P. Find maximum of n numbers without using array.
  - ✚ This is hard one in this page.
- Q. Find second maximum of n numbers without using array.
  - ✚ This is also hard one from this page.
- R. Find Hamming weights in an integer.
  - ✚ Hamming weights means the total number of set bits in a number.
  - ✚ For example:  $n=3$  then binary of 3 is 101 then hamming weight would be 2.
  - ✚ For example:  $n=7$  then binary of 7 is 111 then hamming weight would be 3.
- S. Check if given number is in power of 2 or not.
  - ✚ If  $n=12$  it returns false because  $2^n$  doesn't give 12 in any value of n
  - ✚ If  $n=64$  it returns true because  $2^6$  gives 64.
- T. Find how many notes would be required to get target.
  - ✚ You have notes of Hundred (100), tens(10s) and also have coins of 2's and 1's.
  - ✚ Target would be final amount you have to make.
  - ✚ You can use as many notes to complete your target and notes should be told in ascending order like 100,10,2,1.
  - ✚ For example: if target is 1215 then we will require 12 notes of 100, 1 note of 10, 2 coins of 2 and 1 coin of 1.
- U. Find whether integer is palindrome or not
- V. Find 9's and 10's complement of given integer.