practice problems

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1. write a programe to print the first n Fibonacci numbers.

   input:
   Enter the value for n
   6

   output:
   0
   1
   1
   2
   3
   5

   Note : n can be in the range 0 to 2^{31}.
   If n fibonacci numbers can be correctly outputed, then print those. Otherwise print as many as possible with appropriate error messages.

2. Given an array of n integers, write a program to search whether a particular integer, say k, is present in the array. If present return the index of the same, Otherwise return -1.

   input:
   Enter the size of the array : 5
   Enter values :
   1 2 3 4 5
   Enter the value to be searched : 4

   output:
   Index : 3

3. Given two non-negative integers, say m and n, find GCD(m,n) and LCM(m,n).

   input:
   Enter the values of m and n : 3 9

   output:
   GCD : 3
   LCM : 27

4. Calculate the determinant of a square matrix.

   input:
   Enter the size of the matrix : 3 3

   Enter the elements : 1 2 3 1 1 1 2 3 3

   output:
   Determinant : 1