**TIGER ANALYTICS QUESTIONS**

1)There are n stairs, a person standing at the bottom wants to reach the top. The person can climb either 1 stair or 2 stairs at a time. Count the number of ways, the person can reach the top.

Examples:

Input: n = 1

Output: 1

There is only one way to climb 1 stair

Input: n = 2

Output: 2

There are two ways: (1, 1) and (2)

Input: n = 4

Output: 5

(1, 1, 1, 1), (1, 1, 2), (2, 1, 1), (1, 2, 1), (2, 2)

2)The eight queens problem is the problem of placing eight queens on an 8×8 chessboard such that none of them attack one another (no two are in the same row, column, or diagonal). More generally, the n queens problem places n queens on an n×n chessboard.

3)Write program to find least positive integer missing from list of input integers.

Examples:

input: [1,-1,3,7,8,0,2,5,-6]

output:4

input: [3,7,-1,8,9,10]

output: 1

4)Find the longest word in the sentence.

5)Write python program to find missing numbers from a list

examples:

input: [1,2,3,4,6,7,10]

output: [5,8,9]

6)Factorial of a number in a optimized way.

7)Determine the total number of natural numbers less than or equal to N such that the greatest common divisor of the selected and N is less than 3.

8)001000101001... is a finite string. Find the minimum number of zeros between any two 1s.

9)Program to find the transpose of a matrix.

10) You are given an integer array A of size N

Your task is to print the farthest element from 0. If there are multiple elements, print the number with the least value.