CT-04

Q1. Let, ...4 ... , is an internal node in the search space of N Queens problem.[The array is named column(dimension ...) and column[r] denotes the position/column of rth queen].

i) How many leaf nodes can be generated from this node without any branch and bound?

ii) How many solutions can achieved from this node?

Q2. Given 7 integers in an array named **pool**. Write a program (iterative using own stack or recursive) to select and print the prime numbers while moving forward. Then while backtracking, find the maximum among the prime numbers.

Pool = {10,2,5,17,12,13,4}

Sample output:

Forward: 2,5,17,13

Backward: 17

$(2,4,1,3)$ $(2,4,3,1)$