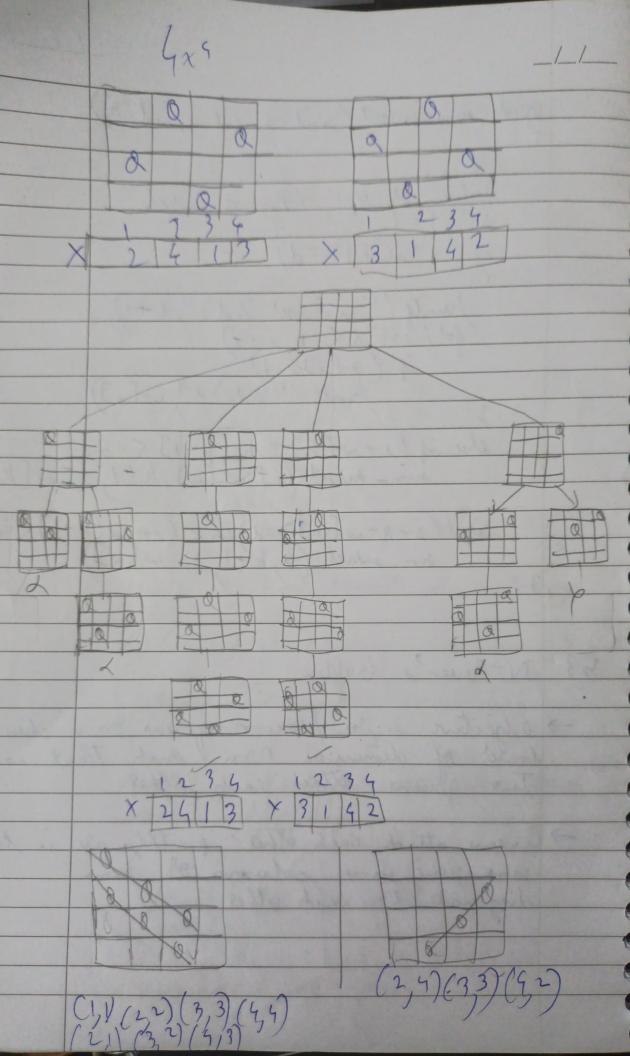
53 N-Queen & Jaollen toold of dimension non much that no two greens attack each other of Overs attack each other if they are in the same sow, some column of same diagonal to each other



Let us consider any 2 Let us consider 2 (3,2) > (2,j) (3,3)=(2,1) (43) -> (k;1) (92)2(k,1) 2-2=k-1 3-2=4-3 2+3 = 4+2 6 = 6 j-L=i-k 1-1-6-i Algorithm Nevens (K, n) no. of greens Musing backtracking, the elgolithm blints are fol i < 1 to h do

if (place (k, i))

n [k]

if | 222 h

found x [(, - n]

else

No livens (keln) Algorithm place (K, i) 1 Returns True if a placed at km son Liptus column otherwise return False

(K-1) do 70 (x [y]-1) 22 102/

Backtracking De find all fearible solution the decision is taken, we can sevoke genstruct a tree, this true is termed by The is constructed using DFS travarus Sz£ 1,2,3,4,5) man value of subset element in The sidset should be equal to 5, 26 1, 2, 43 5 2 2 2,5) 53213,43 Firm of subset problem SZL1 2, 3, 4,5) - Edements in sets should de 7 always be in increasing

//_ 21,2,4), 2,53 [3,4) who he Time Complexity < 0 (2") A lgorithm Sum-of a rulsets (S k &)

(1 I nput W (1-n) which holds The element on
increasing order & d

(output ; Subsets whose humation is of MEDES===d)

MEDES===d)

Mente(x(1...n)) else if (\$t w [k] t w [k+1] <= d)
Sum-of-subsets (\$t w [k], k+1, 8 w (h))

My (Star w Cks) > 2 d) and (Stw Ckt1) < 2 5 cm of entisets (8, h-1, 8-w[h]) 52 (Reogram to John sum # include (stdio b) int w[10], re[12],d) printy (" In heard no. of elements m')

prant (" ? od" & n);

printy (" \n kead elements in increasing

order \n");

for ("=1', i (2n', i + r) sum z sum t w [i] frinty (" In Read the subset man value!");

scarf ("2.d", & d);

from < d | | w []] >d) prints (" \n No solutions")

genit (o)) 3 return 0)

void sum julset (int 8, int b, rut 2). statio int b21' / No. of subsets is (otw[k]=zd) prints ("In Subset 7.d", both);

for (i-1) i < 2 k' i 4 +)

for (xei) 221)

frints (647.d \ 4") w [i]) else of [stw[k] tw[kt]] (zd)
sum_muset (stw[k], ht] x=w[k] M ((A+8-w[h]) zd) kk (st w[k+1] (zd) hum subset (k,k+1,8-w[k])