- D. Implement 8-Durens algorithm using R* search & Hill Climbing Algorithm.
- A* search
- 1. Debine the initial State
 - start with empty board
 - = initialize a compty list
- 2. oching the Heunistic Function (h)
 - For each state, calculate no of conflicts bluces queen althoughy placed.
- 3. Dobine the cost purction
 - of this will be no of queens placed so bor.
- 4 define fin) = gen) + hen)
- 5. Expant nodes
 - pop the state with lowest find and place it in the closest list
 - and all queens are placed, the goal is forme

by placing queen in next now in each possible col.

6 states and orbit them to open list.

4) Reposat

L J 4+1 5+1 4+11 5+1 010 0,1 012 0.3....

3-7-2+2 3+2

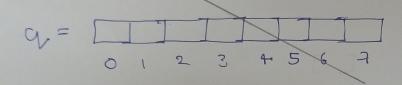
tota trummer et doubs

needs 40 smog 30 -011, - (1)

was all more to air

HIII clumbing algorithm

represents a col & the value represents the row Position of that represents the row Position of queen is in that now in 168]



- 1. In itialize the state
 - start with a random state where cach of the 8 quens is placed in different when, but randomly choosen rows.
- 2. Evaluate the twent state
 - -> h (n) = no. of pains of queen attacking such other.
- 3. Owner ate Neighboury
- -) for cach column thy moving the queen to way possible Tww 4. Scle of the best neighbry

