

## SNS COLLEGE OF ENGINEERING Coimbatore-107



**COURSE NAME: ANALYSIS OF ALGORITHM** 

**II YEAR/ IV SEMESTER** 

UNIT – V

**BACKTRACKING ALGORITHM** 

**Topic** 

N-Queen's Problem

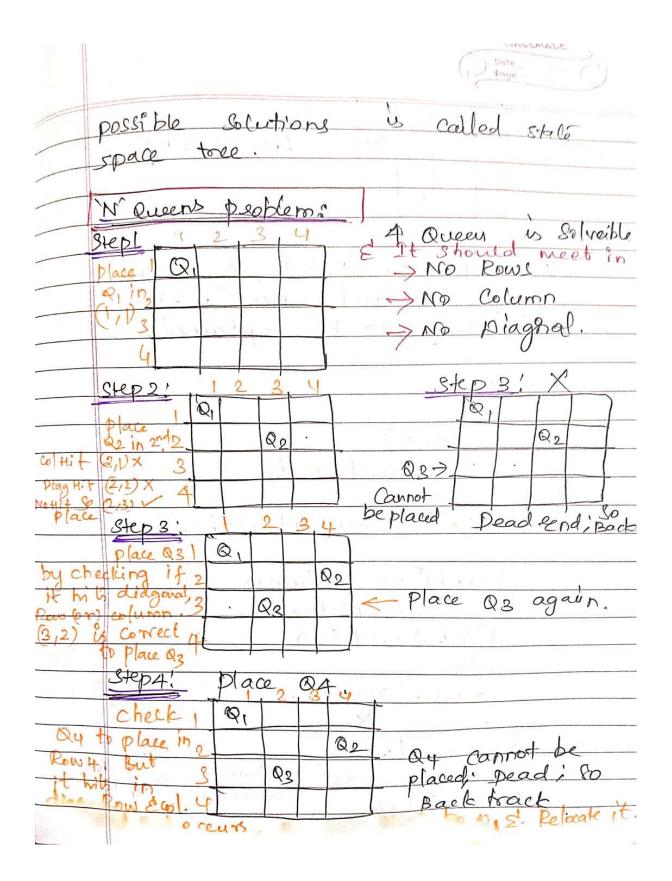




Page
UNIF-Y BACKTRACKANG METHOD
4. We search for set of
Cor) optimal Solution that
Satisful some so retraint Using
Satisfy some constraint using Back track formulation.
Solution = (21, 22 2m)
*
oci is chosen from this sell which is best.
which is best.
Note: (x)
Search is refined at each
Stage by eliminating certain
Stage by eliminating certain possibilities.
Land Constant to the land to the
Exhaustive Search?
It is basic routine
of Search in which all
possible solutions to the give
problem are produced.
State Space Tree:
In back tracking while sol
a given problem a tree is
constructed based on choices
made. Such a tope with all







## NATIONAL INCOME.

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steps:	Page
Now Q, Q, Q, Pelocated to Q2 (1,2) & Again Check Q3 Q2, Q3 & Q4 b place.	No crossing.  El 80 placed all a without Crossing lach other
03(3,1) an	$1,2)$ , $Q_{2}(2,4)$ $Q_{4}(4,3)$ be optained.
Queen (n)  for col+1 t	ondo w, col))then
board ( row)  if (row - n  Print board  else	Column -
Queen (sou } X & [Q] 2 Queens -> [Q] Problem × Both	B Queens Ra

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