N QUEENS. EXP 1 insoffa + Fi AIM: To write the program for N-OUEENS problem and execute encurfully. PSEUDOLODE: 1. Function nequeens (N): 2. CREATE a board of eight NXN filled with O 3. If some_n_queens (board,0,N) à TRUE'. A. PRINET the board 6. PRINT "Solution does not exist" 7. Function solve_nqueen (board, col, N): 8. If col.>=N: 9- Reven One 10. Follach now from 0 to N-1: 11. If is safe (board, sourced, N) is TRUE: 12. PLACE Queen at (Row, cal) 13. IJ solven queen (board, colt1, N) à Toul: LA. RETURN TRUE 15. REMONE queen from (Row, col) (Backmack) 16. RETURN FALSE; M. FUNCTION il_safe (board, sow; col, N): 18. FOR each column lyt of (iou, col): 19. CHECK vour upperdiagnal and louier diagnal. 20. If any queen is jourd un these directions: 21. RETURN FAISE Most Till benock 22. RETORN TRUE Life of specified with the standard in a kuwa sana nga matur tua di Ciring tan manga maturisi ina

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PROGRAM :dy print board (board): factour in board! puint (" ". join (shr(x) fol x in way) peint ("(n") il_saye (board, how, col, n): folitin range (not): (14) il== [i][word broad V return falsez Ad i,j in zip (large (low) +1, -1); large (col,-1,-1)): y bound [i][j] ==1: return false 9000 00 Hollow 1 1/21 for i'il in zip (range (rowin,1), range (col,-1,-1)): y board tiJ[j]==1: LAND MALTER! return False 4 of a Most town when he return Time is (in los revor boxed + 9400 is 100 . ay solve _n_queen (boald, col, n): a color to reproper to the series of the extrum Perie Juga Marchall Jul Act tin range (n) in my really somewhat if in _saye Choard, i, col, n): board [i][col]=1 if solve_n_queens (beard, col+1, n): setum the know, in more property beard [i] [cot] = 0 32/19 has an in अध्यो भोष्ट्या राष्ट्र Return Jalse. dy n-queens (sin): board = EtoJ*n for _in large (n)] is not solve -n-queens (board, o, n): peint ("Solution" does not exist") eenum False

peint-board (board) 1 119 1179 eetum Teue n = int (input ("Enter the value of N (singe of the boards.") ph; peint ("Please entel à positive rateger.") ij n 1=0: else: n-queens (n) except Value Erroran round of the codergion who are print ("Invalid input ! Please enter a valid uneger.") Charles of wood from the 12/4 (O regaro- store, distribut DUTPUT : Enter the value of N (sibe of the board): A O DO COOL " DONAN KI WAR WELL LIKE LAND" THEREIT 0 0 0 1 casson was off may i sign O DE CHANG OUR " Show who Ish of" The world chenge ! way formother or the extrem ? mich! Everyoni, place crasis com " 100 mgs pri Therefore, the program is successfully executed RESULT: and output is neighed. Agree the Top i i jajon saan saan ka i - Wildow Johnson July : Myron Tell j lind kaj ulturi javan ota dita rozbaj i 1949 aj Thoughton (10) A