3-DP-Longest Common Subsequence -



CS23331-Design and Analysis of Algorithms-2023 Batch-CSE

→ 1-DP-Playing with Numbers

Dashboard / My courses / CS23331-DAA-2023-CSE / Dynamic Programming / 2-DP-Playing with chessboard



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Started on Friday, 25 October 2024, 1:35 PM
                 State Finished
        Completed on Wednesday, 20 November 2024, 2:56 AM
           Time taken 25 days 13 hours
               Grade 10.00 out of 10.00 (100%)
  Question 1
                        Playing with Chessboard:
  Correct
                        Ram is given with an n*n chessboard with each cell with a monetary value. Ram stands at the (0,0), that the position of the top left white rook. He is been given a task to reach the bottom right black
   Mark 10.00 out
                        rook position (n-1, n-1) constrained that he needs to reach the position by traveling the maximum monetary path under the condition that he can only travel one step right or one step down the
   of 10.00
                        board. Help ram to achieve it by providing an efficient DP algorithm.
   P Flag question
                        Input
                       124
234
                        871
                        Output:
                        Explanation:
                        Totally there will be 6 paths among that the optimal is Optimal path value:1+2+8+7+1=19
                        Input Format
                        First Line contains the integer n
                        The next n lines contain the n*n chessboard values
                        Print Maximum monetary value of the path
                        Answer: (penalty regime: 0 %)
#include <stdio.h>
                                int maxVal(int a, int b) {
return (a > b) ? a : b;
                                     for (int i = 0; i < n; i++) {
   for (int j = 0; j < n; j++) {
      scanf("%d", &arr[i][j]);
}</pre>
                               1 2 4
2 3 4
8 7 1
                                                     12 🗸
                                         12
                          4
1 1 3 4
1 5 7 8
2 3 4 6
1 6 9 0
                                                     28
                                          28
                          Passed all tests! 🗸
                        Correct
Marks for this submission: 10.00/10.00.
                                                                                                                                                                                                                         Finish review
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