

Better approach :- Tabulation 4, 10, 4, 3, 8, 9 set all to 1, as each DP = 11 1 1 1 1 on LIS sequences only one state variable DP[i] = max (DP[j] + 1) where j'i Pime Complexity: O(n2) Better approach not dynamic programming, This approach gives the right answer, but the LIS it produces is not correct, although the length of the LIS is correct. Check attached dock file for this approach. time complexity: O(NlogN)