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LCS: 6 - Calina

2) Minimum Edit Distance

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Source: California Target: Carolina

Minimum Edit Distance: 6 Dynamic programming is impractical for the Bin Packing problem because it conflicts with the characteristics: Optimal Substructure and Our lapping Subproblems

Optimal Substructure: Bin Packing Problem does not have an optimal substructure. Take the Oll Knapsack problem, if you know how to pack a Knapsack of a smally capacity, you can we that solution for a leggy problem. This principle does not apply to the Lin packing problem. If we split the items into wandselfs A pack them wing the Knapsacks, we may find that this is not the optimal solution to the overall problem. If the form one Knapsacks may be a betty fit in another solution. Therefore we cannot break the bin problem into snally problem and find the optimal substructure.

Developing Subproblems: In Dynamic programming, we generally need to solve the same subproblems multiple time. By recording and rewing the roults of the subproblem, we can speed up the computation of the overall problem. The conflict with the bin packing problem is that three are an extremely large number of subproblem due to the combinatorial nature of the problem for each subproblem, you need to record which items are packed 2 where Because of this, the subproblem are very rarely result & therefore are not overlapping.