Repeating Subproblems means it needs DATE Dynamic Programmy + Overlapping problems. + problems have optimal substructure property, - Overall soln can be constructed from optimal solutions of its Subproblems. Dynamic Programming solve every subproblem just once and saves the answer in a lookup table, there by avoiding recalculating the answer everytime the subproblem is encountered. 2 ways / patterns of DP: 1) memoreation 2) tabulation. How to recognize DP: 2 Subproblems share The problem 1) Overlapping subproblems: subproblems are not independent 2) Optimal substructure property: optimal soln can be constructed from optimal solut of subproblems. bottom up. Top down approach 1) Memoization 2) Tabulation. avoids ream ion. Typically done by thing up a lookup table and computing The soin based on results of the table Similar to recursive - Texcept for it looks for the ansurar in a wocker before computing the arriver.



