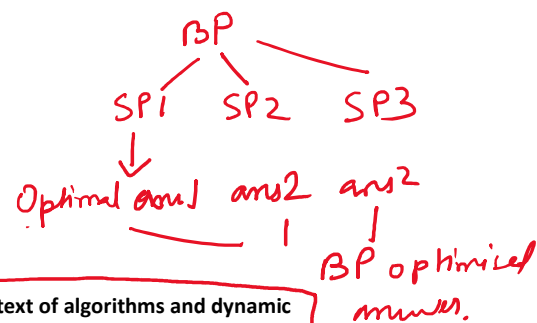


It is used to solve optimization problems

- 1 Breaks down the complex problem into simpler subproblems
 - 2 Find optimal solution to these subproblems
 - 3 Store the results of subproblems (memoization)
 - 4 Reuse them so that same subproblem is not calculated more than once
 - 5 Finally calculates the result of complex problem
- Applicable to problems which are having properties of:
- Overlapping subproblems & Optimal Substructure



In the context of algorithms and dynamic programming, "optimal substructure" means that an optimal solution to a problem can be constructed from optimal solutions to its subproblems.

The Fibonacci series is a sequence of numbers where each number is the sum of the two numbers before it. The sequence starts with 0 and 1, and continues with 1, 2, 3, 5, 8, 13, 21, and so on.

