# UNIT-4: Backtracking & Branch and Bound

## 🔥 Most Important Questions

1. Solve 8 Queen Problem using Backtracking.
2. Explain State Space Tree for 8 Queen Problem.
3. Explain Graph Coloring Problem with example.
4. Explain Hamiltonian Cycle Problem using Backtracking.
5. Solve Traveling Salesman Problem using Branch and Bound.
6. Explain Branch and Bound Technique.
7. Explain LC Branch and Bound.
8. Explain FIFO Branch and Bound.
9. Explain Lower Bound Theory.
10. Explain Parallel Algorithms and applications.

## ⭐ Frequently Asked Short Questions

- Define Backtracking.
- Define State Space Tree.
- Define Live Node.
- Define Dead Node.
- Difference between Backtracking and Branch & Bound.UNIT-4: Backtracking & Branch and Bound

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