

9565 exp10 postlab

Q1 How to overcome combinatorial explosion in TSP?

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- ① Approximation algorithms: provide near-optimal solutions quickly.
 - ② Heuristic methods: use efficient rules of thumb to find good solution.
 - ③ Problem decomposition: Break TSP into smaller, manageable subproblems.
 - ④ Branch and bound: Systematically explore search space pruning suboptimal branches.

Q2 What is the learning from the salesperson problem?

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- ① Algorithm development: TSP encourages creating efficient algorithms for combinatorial optimization problems.
 - ② Complexity insights: It provides insights into the complexity of optimization problems.