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Report for the N-Queens Problem

Time Complexity Report for the N-Queens Problem Code

1. Recursive Function Calls:
  - The depth of recursion is N, as there are N rows to fill.

2. Validity Checks:
  - The isValid function checks:
    - Each column up to the current row for existing queens, taking O(row) time.
    - Both diagonals for threats from previously placed queens, each taking O(row) time.
  - Hence, the time complexity of isValid is O(N) in the worst case.

3. Total Time Complexity:
  - The total time complexity can be expressed as:
  T(N) = O(N) (for column checks) * O(N) (for diagonal checks) * O(N) (choices for columns) = O(N^3)