N-Queens II

For this problem we only need to return the count of valid solutions, not the actual configurations.

Key Idea:

- Same backtracking logic as N-Queens I:
  - Place queens row by row.
  - Ensure no two queens share:
    - Same column
    - Same diagonal (row - col)
    - Same anti-diagonal (row + col)
- Instead of storing boards, maintain a counter for solutions.

Complexity:

- Time: $O(n!)$ in worst case (similar to permutations).
- Space: $O(n)$ for recursion + $O(n)$ for sets.