

51. N-Queens

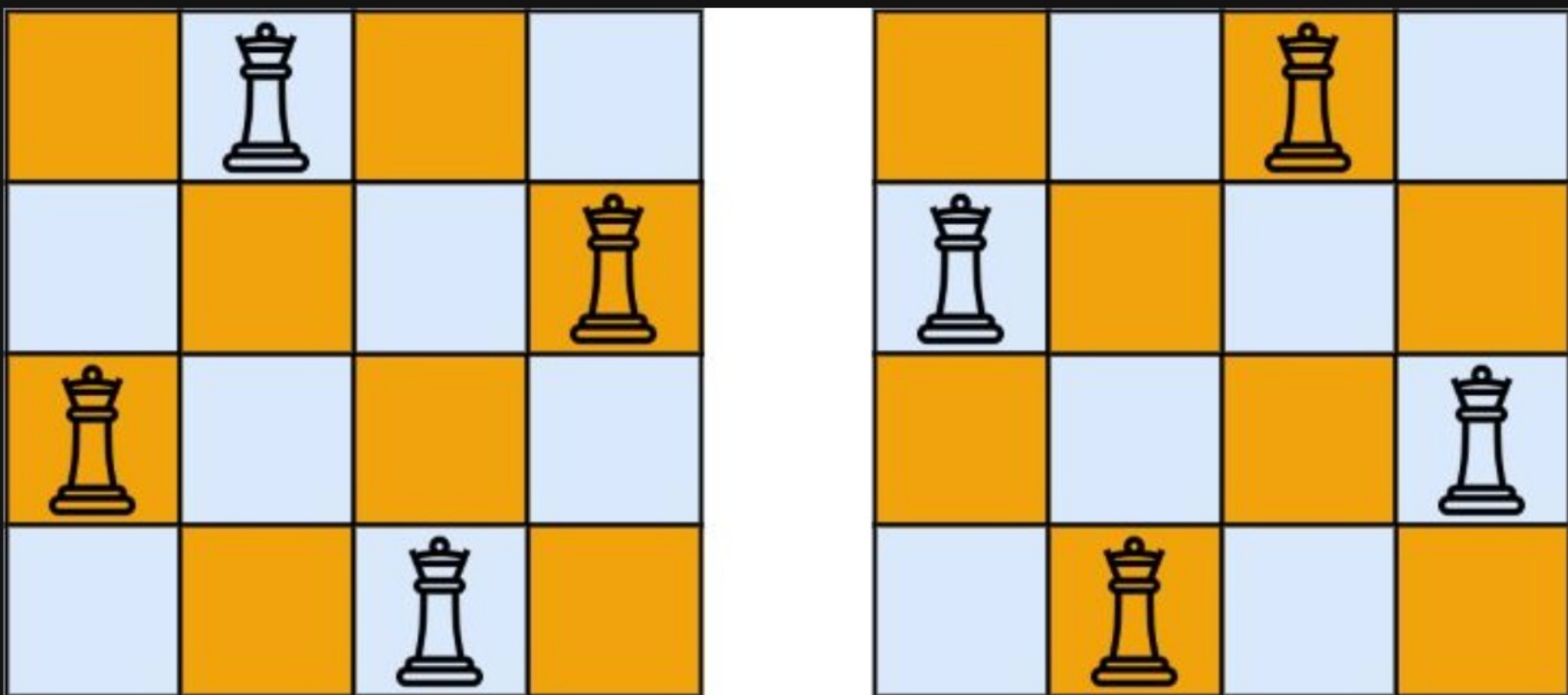
Description

The **n-queens** puzzle is the problem of placing `n` queens on an `n x n` chessboard such that no two queens attack each other.

Given an integer `n`, return *all distinct solutions to the n-queens puzzle*. You may return the answer in **any order**.

Each solution contains a distinct board configuration of the n-queens' placement, where `'Q'` and `'.'` both indicate a queen and an empty space, respectively.

Example 1:



Input: `n = 4`
Output: `[[".Q...", "...Q", "Q...", "..Q."], ["..Q.", "Q...", "...Q", ".Q..."]]`
Explanation: There exist two distinct solutions to the 4-queens puzzle as shown above

Example 2:

Input: `n = 1`
Output: `[["Q"]]`

Constraints:

- `1 <= n <= 9`

