

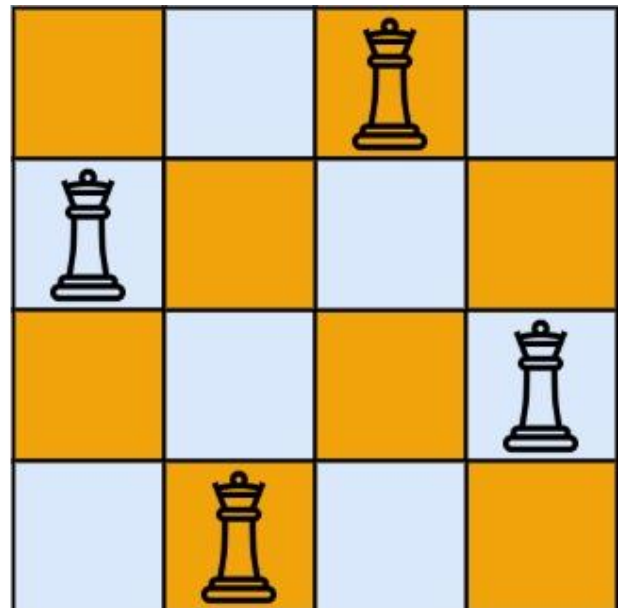
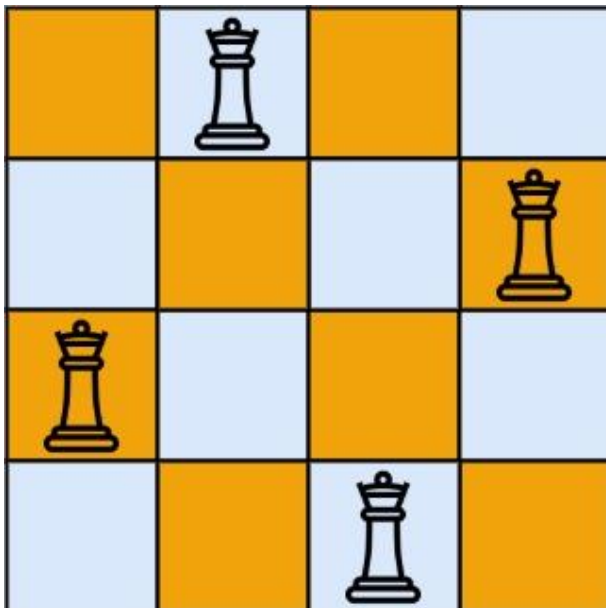
51. N-Queens

The **n-queens** puzzle is the problem of placing n queens on an $n \times n$ 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:

$1 \leq n \leq 9$