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51. N-Queens

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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:**

	Q		
			Q
Q			
		Q	

		Q	
Q			
			Q
	Q		

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:**

- $1 \leq n \leq 9$

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```
class Solution {
    public List<List<String>> solveNQueens(int n) {
    }
}
```

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