W- Qui	eens
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For this problem we need to find all possible placements of givens on an nxn chessboard where no two queens attack each other.

Koy Idea: | Queens attack:

· Lome you

· Tome column

· Tame diagonals (sow-col and sow+col are constant for deagonals)
· Use backtrecking:

· Place queens sow by sow.

· Maintain sets (9 lordeon arrays) for:

· Exermy used

Main diagonals (19W-col)

Anté dégends (1927-col)

The valid placement found securse to next seu.

Algorithm: 1 1 Imtialize:

·Board of size n filled with!

Tetifor columns, diégonals.

1. Recurrive function becktack (10w):
If sow == 11, add board to result

Else iterate through columns:

· They if column or diagonal occupied

·Plece queen · Pecuse to next sew

· Permore guren (l'acletrach)

[Conslexity:

Time: O(u!) (permutation - like)

· Ipace: O(u) for recursión + O(u) for sets