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In [4]: #Name: Mohith Dande
        Given Puzzle:
        _ _ 3 _ 1
_ 3 _ 1
_ 1 _ _
        We need to fill it using digits 1 to 4, so that:
        Each row, column, and each 2×2 box has all numbers from 1 to 4 once.
        Step 1: Fill Row 2
        Row 2: _ 3 _ 1
        Numbers missing: 2 and 4
        Try:
        Row 2 = 2 3 4 1 (No repeats in row, columns, or box)
        Step 2: Fill Row 1
        Row 1: \_ 3 \_ With Row 2 known, it becomes easy.
        Missing numbers: 1, 2, 4
        Row 1 = 1 4 3 2 (All good in row, columns, and box)
        Step 3: Fill Row 3
        Row 3: 3
        Missing numbers: 1, 2, 4
        Try:
        Row 3 = 3 \ 2 \ 1 \ 4
        Step 4: Fill Row 4
        Row 4: _ 1
        Missing numbers: 2, 3, 4
        Try:
        Row 4 = 4 1 2 3
        Final Answer (Complete Grid):
        1 4 3 2
        2 3 4 1
        3 2 1 4
        4 1 2 3
        Every row, column, and 2x2 box has 1, 2, 3, 4 with no repeats.
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In [1]: