

How to Play Sudoku: Beginner to Advanced

Solve9 by harshgitdeep

What is Sudoku?

- Sudoku is a logic-based number placement puzzle.
- The goal is to fill a 9x9 grid with digits so that each column, each row, and each of the nine 3x3 subgrids contain all of the digits from 1 to 9.



Basic Rules of Sudoku

Sudoku is a puzzle game played on a 9x9 grid, divided into nine 3x3 subgrids. The objective is to fill the entire grid with digits from 1 to 9, following specific rules that ensure each number appears only once in each row, column, and subgrid.

01.

Each row must contain the digits 1–9 without repetition.

02.

Each column must contain the digits 1–9 without repetition.

03.

Each 3x3 subgrid must contain the digits 1–9 without repetition.

Beginner Strategies

01

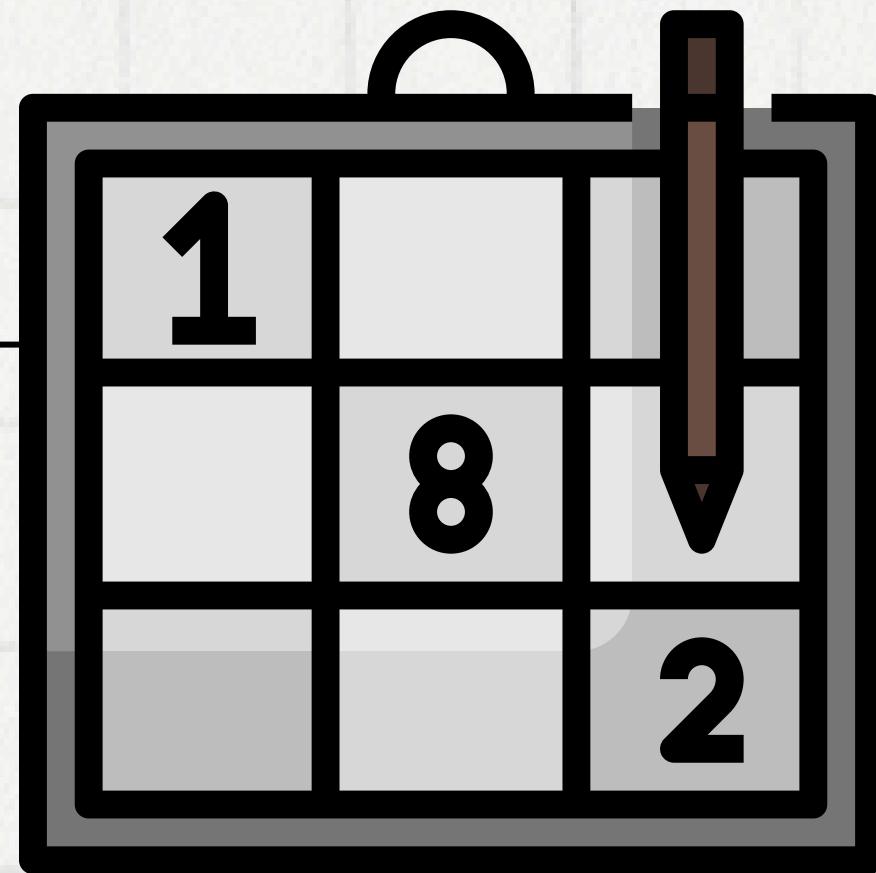
Scanning: Look for obvious placements by scanning rows, columns, and subgrids.

02

Cross-Hatching: Use existing numbers to eliminate possibilities.

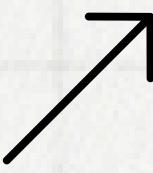
03

Pencil Marks: Note possible numbers in empty cells.





Naked Pairs/Triples: Identify pairs or triples of cells within a row, column, or subgrid that can only contain specific numbers, helping to eliminate possibilities for other cells.

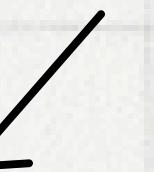


Hidden Pairs/Triples: Find pairs or triples of numbers that can only fit into specific cells within a row, column, or subgrid, even if those cells have other possibilities marked.

Intermediate and Advanced Strategies



X-Wing: Look for a pattern where a specific number appears in only two positions in two different rows and the same columns, allowing you to eliminate that number from other positions in those columns.



Swordfish: An extension of X-Wing, involving three rows and three columns, where a specific number appears in only two or three positions in each row and column, allowing for further elimination of possibilities.

Example Puzzle and Practice

- Show a simple Sudoku puzzle and walk through solving it using beginner strategies.
- Introduce a moderately difficult puzzle and demonstrate intermediate strategies.
- Encourage consistent practice with puzzles of varying difficulty to improve skills.



**Thank you
very much!**

solve9.vercel.app