**Abstract**

80379 solutions

Both "N-Queens" and "Kanoodle" solver are puzzle games, however they belong to different puzzle categories. N-queen is one of the combinatorial puzzles, also known as chess puzzles in this context, entail arranging or picking items based on certain rules or limitations. Chess puzzles are concerned with the positioning and movement of the pieces of chess on a chessboard. The goal of the N-Queens puzzle is to arrange N chess queens on a NxN chessboard so that no two queens threaten each other. This means that no two queens can be in the same row, column, or diagonal at the same time. The task is to identify all potential configurations that satisfy these constraints.

Among any other Pattern Matching Puzzles, Kanoodle is placing a set of 11 pieces into a three-dimensional puzzle board. The pieces have different forms, and the goal is to arrange them so that they fit together. Pattern Matching Puzzles frequently need spatial reasoning, vision, and strategic thinking. Identifying and managing patterns in a spatial context is required to solve them. Arranging parts to match a precise pattern, building structures, or accomplishing objectives within a limited space can all be challenging.

**Introduction**