Graduate Assessment

Problem

A jigsaw like the one shown to the right sits in a fixed border with many different shaped pieces that interlock together. The puzzle is solved by placing all pieces within the border with no gaps; there may be multiple ways of placing the pieces within the boarder to solve the puzzle.

Task 1 (25%)

Describe an efficient algorithm using pseudo code to solve any puzzle based on the conditions described in the problem statement. Remember that pseudo code is a high level description of logic.

Task 2 (25%)

Design a database schema that can be used to store the puzzle properties.

Task 3 (50%)

Present your answers for Task 1 and 2 in a well formatted and structured report.