Hashiwokakero stands out among other Nikoli puzzles. Though it is grid-based, there is no actual grid present, only circles containing numbers. Your task is to draw connections between the circles, inspired by atomic bonds, bridges between islands, or a transit network.

Each island (circle with a number) is connected to the others by one or more bridges. The number denotes how many bridges serve that island.

Bridges can only go straight up, down, left, or right. There can be no more than two bridges connecting two islands. The bridges may not cross other bridges or islands. Each island must be connected to all the others by a continuous link of bridges.