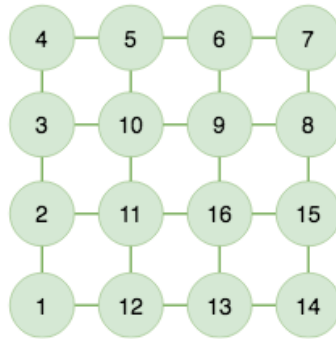
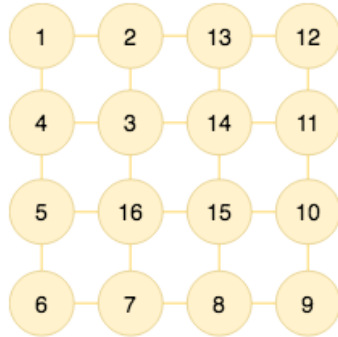


# Lattice Numbering

(posted Friday 8 December 2023)



An  $N \times N$  lattice is numbered with the numbers 1 to  $N^2$  so that successive numbers are at adjacent lattice points, horizontally or vertically.

The numbering starts at one of the corners of the lattice and ends at a lattice point that is not on any of the edges.

The diagram shows 2 of the 64 ways a  $4 \times 4$  lattice may be numbered.

**In how many ways may an  $8 \times 8$  lattice be numbered?**

Difficulty

Time to beat: 9s (if run on a single core)