Example :
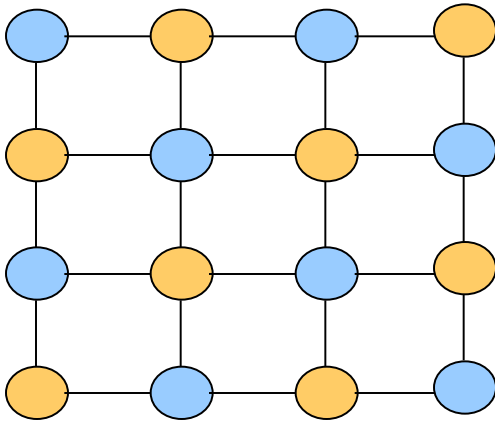

4-connected lattice

Supermodular

$$\psi_{ij}(0,0) + \psi_{ij}(1,1) \geq \psi_{ij}(1,0) + \psi_{ij}(0,1)$$

Swap 0↔1 for black chessboard vertices

supermodular potentials become submodular