



6 possible edges
upper bound 2^8

$2^4 \times 3$ (only horizontal edge)

+ 2 (the two valid 3 horizontal edge states)

Further limited by start states

≈ 45 states possible

except for first move,
possible moves are $\frac{1}{3}(45)$
(based on ending
position of previous move)

16 possible board constraints
 $\{-1, 2, 3\} \times \{-1, 2, 3\}$

\mathcal{R}_e = Edge Transitions

\mathcal{R}_c = Constraint Transitions

\mathcal{R}_{ec} = valid edge transition for given constraint

