

3.5.3.3: The NIM Game when $x = 7$

Example: The *nim* game when $x = 7$

Objective: your opponent lose

The subtraction Game
divide a pile of matches into
two non-empty & different piles

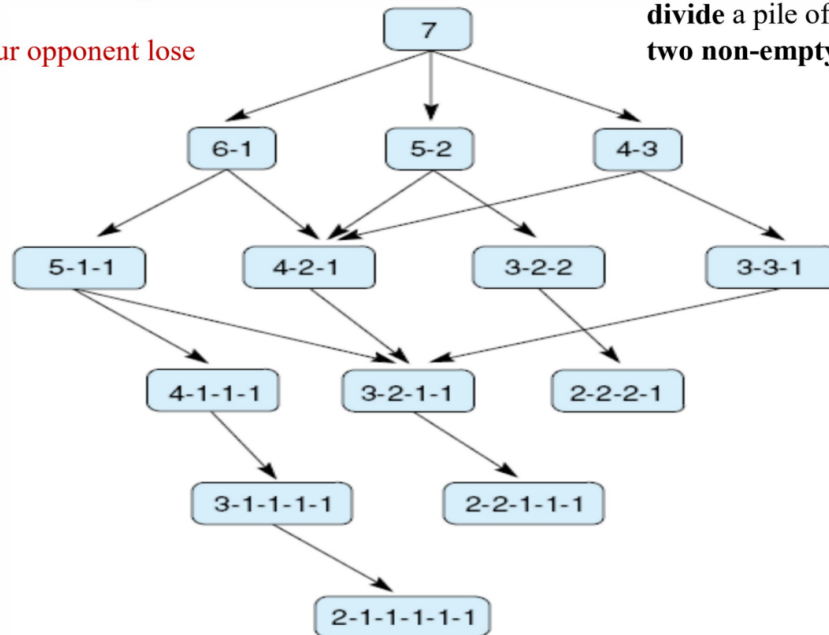


Fig 4.13 State space for a variant of *nim*. Each state partitions the seven matches into one or more piles.

Solution ① Use minimax Algorithm
min play first

Max win : 1

Min win : 0

Min

Max

Min

Max

Min

Max

