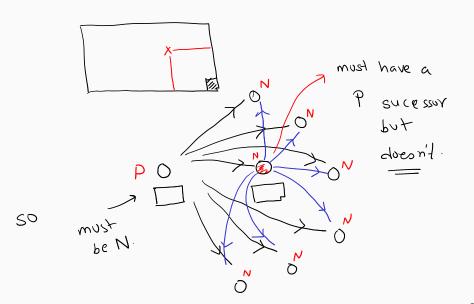
Games, graphs, and machines



Chomp



Strategy stealing



Nim (jian-shizi)

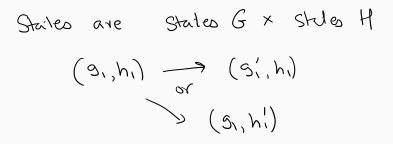


捡石子

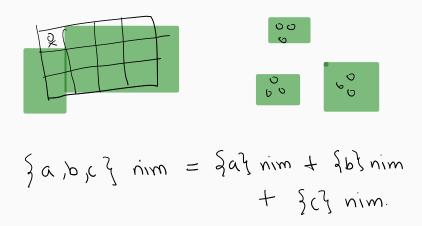
Mirroring

Game sum

- Given G and H, the game G + H is one where a player moves in G or in H, but not both.
- A player unable to make a move loses.



Example: Nim + chomp



Mirroring: G + G is P

Thm: Let G be any game. Then G+G is a P-game. Pf: Second player has a winning Strategy Bring the game in H+H form 2,2,4,4 nm = 32,43 nim + 92,43 nim

Hackenbush

