

Expectations

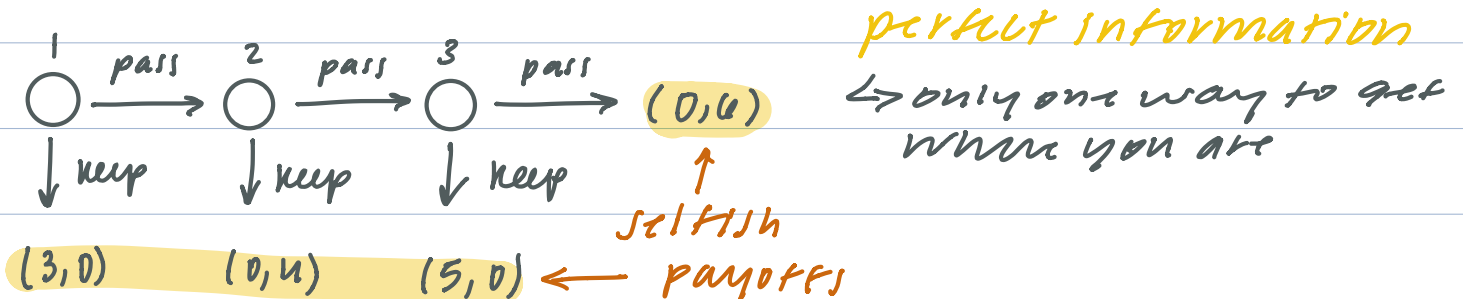
- read textbook before class
- might call people to fill in high-level details of textbook

Way it works

- 1 component: medium difficulty
- component 2: very hard

Game 2

Extensive Form Game



- players N
- histories H } tree
- terminal histories $Z \subseteq H$ (no outgoing edge)
- $\exists H \setminus Z \rightarrow N$

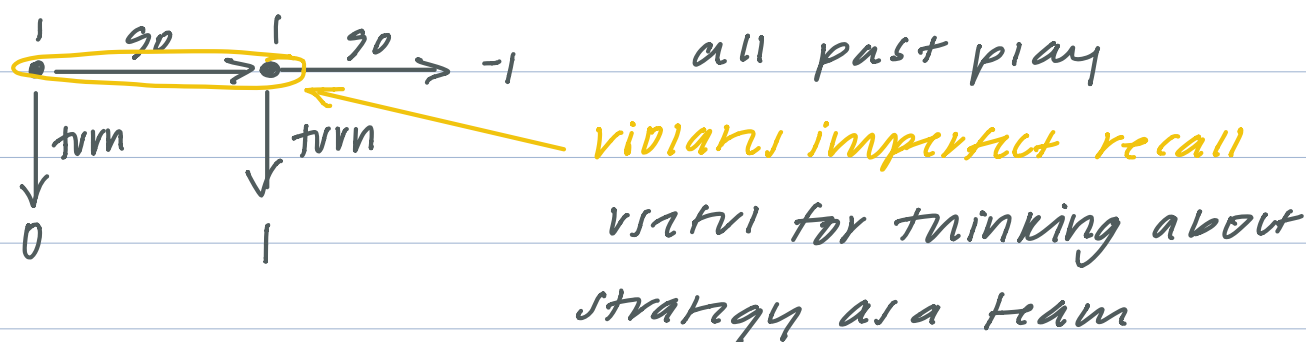
whose turn it is to move at each non-terminal node

- for each $i \in N$: $u_i : Z \rightarrow \mathbb{R}$ utilities don't need to be selfish payoff

- actions $A(h)$
- Strategy: $S_i; H_i \rightarrow \text{actions}$ perfect info vs. imperfect information
 $\forall h \in H_i : S_i(h) \in A(h)$
- Information set $I_i \subseteq H_i$
 I_i
 $\forall I_i : \forall h, h' \in I_i : A(h) = A(h')$

Tipsy Driver: Imperfect Recall

Intuition: when you're at an info set, you can extract



Normal-Form Game

Choose strategies at beginning

- N
- $S_i \equiv$ valid strategies for extensive form

	P		K	
KK	3	0	3	0
KP	3	0	3	0
PK	5	0	0	4
PP	0	6	0	4

$U_i(s) = U_i(z)$ where z results from s from extensive form

reduced normal form (if strat results in same outcome)

GPT2: chess prediction
 chapters 2, 3 textbook