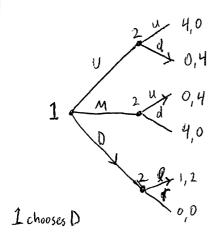
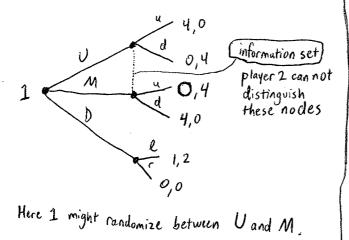
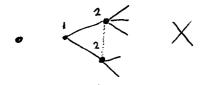
## Lecture 18 7 Nov 07

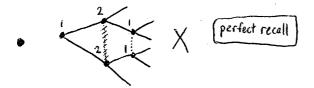




Formal Defn An information set of player i is a collection of player i's nodes among which i Cannot distinguish.

rules not allowed

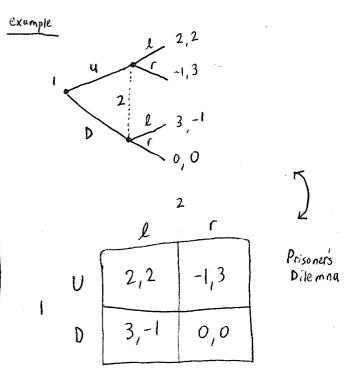




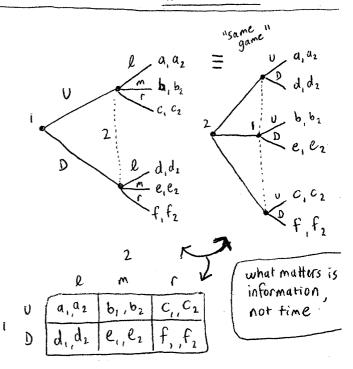
Defn Perfect Information: all information sets

in the tree have just one node

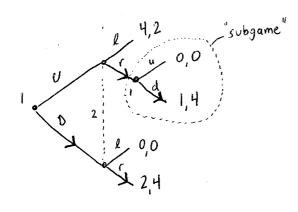
Imperfect Information: Not perfect information



Defn A pure-strategy of player i is a complete plan of action: it specifies what player i will do at each of its information sets



## Open Yale courses

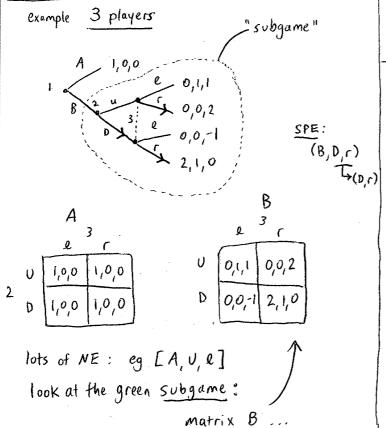


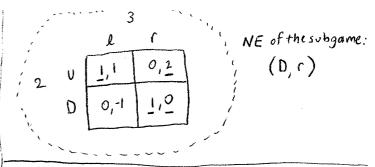
strategies for 1: Uu, Ud, Du, Dd strategies for 2: l, r redundant

		2
		e r
<u></u>	Vu	4,2 0,0
	Ud	4,2 1,4
	Dψ	0,0 2,4
	Dd	0,0 2,4

$$\frac{NE: (uu, e)}{(Du, r)} \frac{Nor}{BI}$$

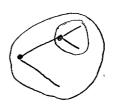
$$\frac{(Du, r)}{SPE}$$
SPE

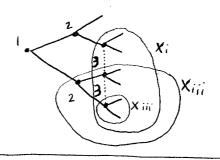




Defn A subgame is a part of the game that looks like a game within the tree. it satisfies:

- i) it starts from a single node
- ii) it comprises all successors to that node
- iii) it does not break up any information sets





Defn A NE  $(s_1^*, s_2^*, ..., s_N^*)$  is a subgame perfect equilibrium ("SPE") if it induces a NE in every subgame of the game

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