

Only SPE: (NYY,RG) <-- found using backward induction

Non-SPE NE can be found by:

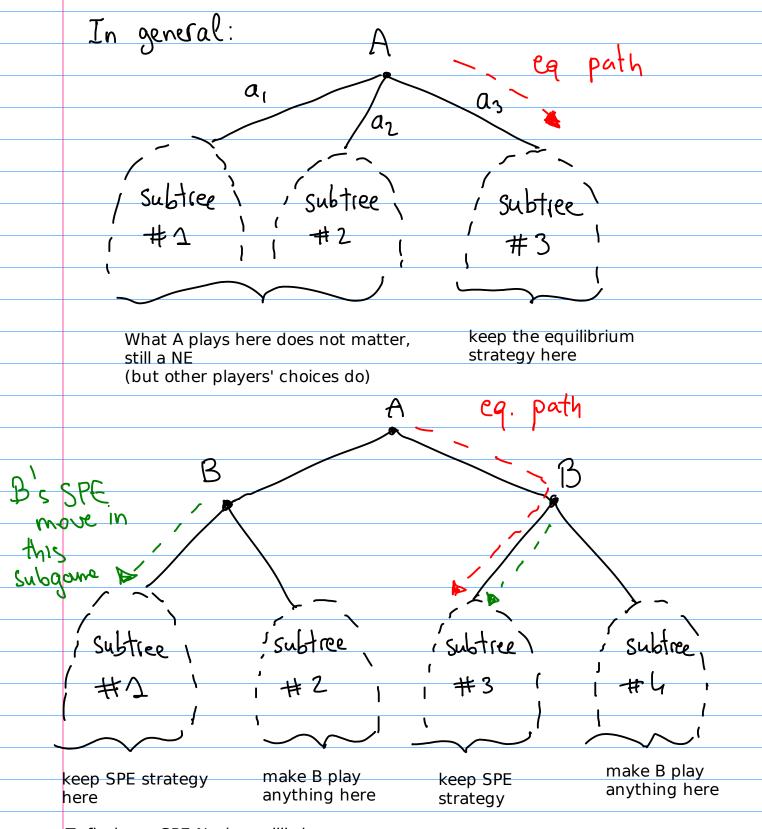
- following the equilibrium path
- playing irrational moves off-path s.t. the eq. path is still sustainable

In this game:

- A ends the game by playing Y
- B playing G afterwards makes the NE sustainable
- What A plays afterwards does not break the equilibrium

	GG	GR	RG	RB <	-
YYY	<u> </u>	1 3	1 3	13	1
YYN	1 3	<u> </u>	1 3	13	
YNY	<u> </u>	<u> 1</u> 3	1 3	1 3	
444	<u> </u>	13	<u>3</u>	13	
NYY	0 0	0 0	2 1	2	
NYN	0	0 0	2 1	21	
NNY	0 0	0 <u>0</u>	0 0	3-1	
Z Z Z	0 0	0 0	0	0 0	Ĺ
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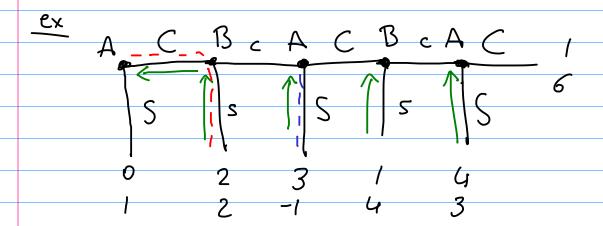
If B plans to play R on 2nd move, then A does not have incentive anymore to play Y on 2nd move



To find non-SPE Nash equilibrium:

- fix player X at some point in the game (e.g., above it's B on 2nd move of the game)
- keep X's SPE moves in the subgame where X is willing to go (above, subtree #1 and subtree #3)
- play an irrational move in one (or more) subgames where X in not willing to go

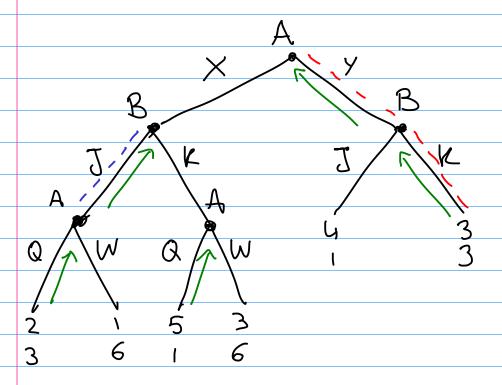
- IMPORTANT: Keep other players' SPE strategy



SPE: (CSS,ss) <-- found via backward induction

E.g., (CSS,sc) is a NE but not a SPE

	SS	5 C	C S	CC
SSS	0	0 1	0 1	0 1
SSC	0	0 1	0 1	Ω7
SCS	0	0	0 1	OL
Scc	0	0	0	01
CSS	22	22	3 -1	3 7
CSC	2 2	22	3 -1	3 -1
CCS	2 7	22	4	42
CCC	22	22	14	16



SPE: (YQQ,JK) found via backward induction

Guaranteed NE: (Y**,JK)

E.g., NE that is not SPE: (YQW,JK)

	22	JK	KJ	KK
XQQ	2 3	23	رم\ ا	5 1
XQW	2 3	2 3	51	5
XWQ	1 6	ا ر	3 6	3 6
XWW	1 6	1 6	3 6	3 6
YQQ	<u> </u>	3 3	4,	3 3
Yaw	<u>ل</u> (3	h \	3 3
YWO	4	3 3	Lu,	33
YWW	4,	3 3	4	3 3