

# 'Battle of Sexes'

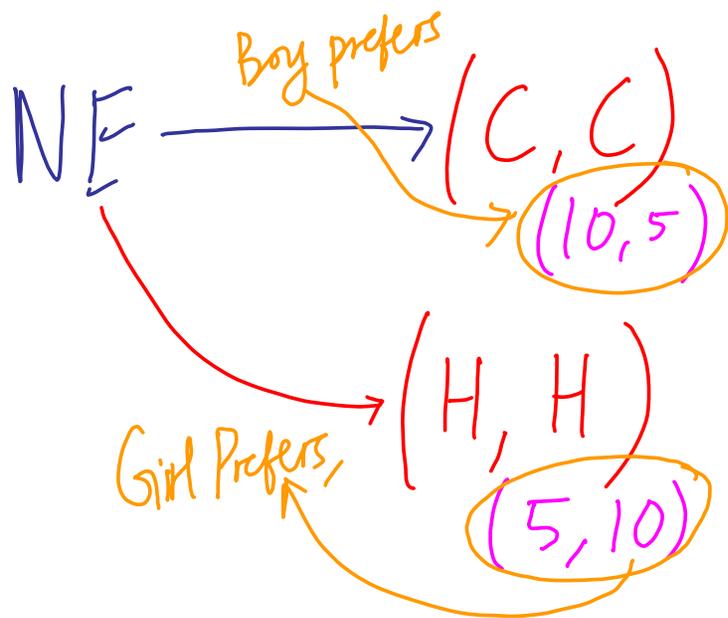
- Game - cricket (C)
- Movie - Harry Potter (H)

2 Nash Equilibria

Girl $P_2$		C	H
Boy $P_1$		C	H
C		10, 5	0, 0
H		0, 0	5, 10

2 Nash Equilibria in this game.

— Example of a game with multiple Nash Equilibria.



Boy prefers  $(C, C)$  Equilibrium

Girl prefers  $(H, H)$  Equilibrium

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Therefore, BoS (Battle of  
Sexes) is NOT a  
coordination game.

Pareto optimality?  
 $(L, L)$  is Pareto Optimal!  
 $(H, H)$  is Pareto Optimal!

In BOS, there are  
2 NE — and both are  
Pareto optimal. /