

'Battle of Sexes'

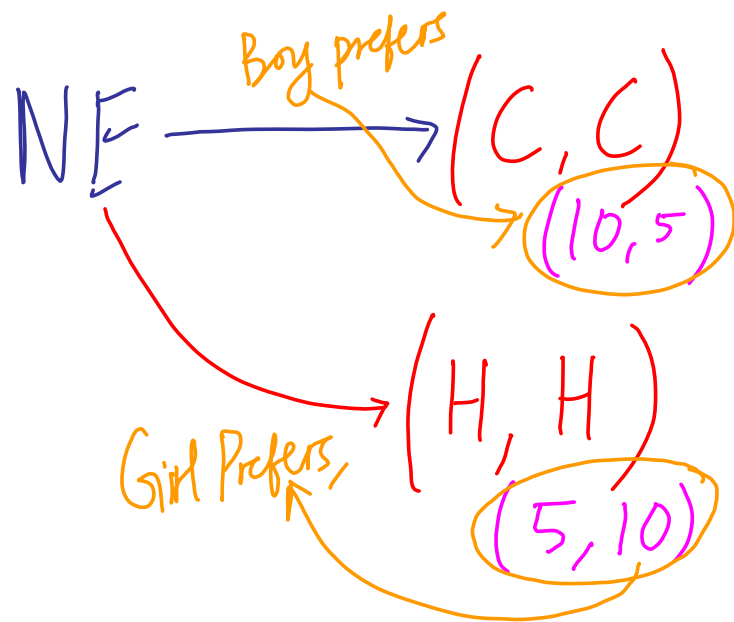
- Game - cricket (C)
- Movie - Harry Potter (H)

2 Nash Equilibria

Girl P_2 \ 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

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. /