


PRISONERS' DILEMMA

	2 GIOCO SILENT	2 GIOCO CONFESS
1 GIOCO SILENT	(2, 2)	(5, 1)
1 GIOCO CONFESS	(1, 5)	(4, 4)

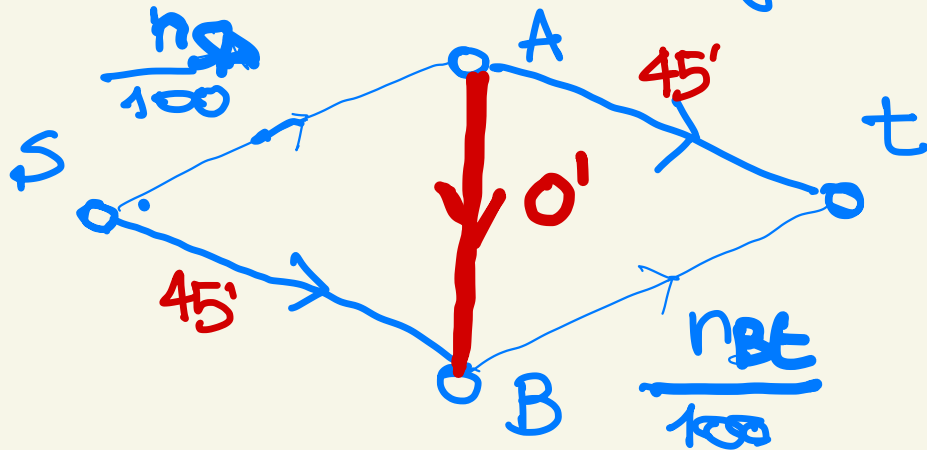
X_1
 GIOCO NON-COOPERATIVO
 • inf. completa
 • non comunicat.
 • simultaneo

STATI
 INCREMENTO STRATEGIE DOMINANTI

INSIEME STATI
 $G: X_1 \times X_2 \times \dots \times X_n \rightarrow R$

N : set of players
 $\{X_i\}_{i \in N}$: set of strategies, $i \in N$
 G : payoff, $i \in N$

BRASS' PARADOX (1968)



$$n_{SA} = \# \text{ cars } S \rightarrow A$$

$$n_{BT} = \# \text{ cars } B \rightarrow t$$

$$N = 4000 = n_{SA} + n_{BT}$$

$$X_i = \{S_{At}, S_{Bt}\} \quad i \in \mathbb{N}$$

SABT

$$n_A = 2000$$

$$n_B = 2000$$

$$65 \text{ min}$$

$$80 \text{ min}$$

$$l(S_{ABT}) = \frac{n_{SA}}{100} + \frac{n_{BT}}{100} + c$$

$$C_i = \begin{cases} l(S_{At}) = \frac{n_{SA}}{100} + 45 \\ l(S_{Bt}) = 45 + \frac{n_{BT}}{100} \end{cases}$$

length of car so
shorter
more
stato

HOTELLING'S MODEL

