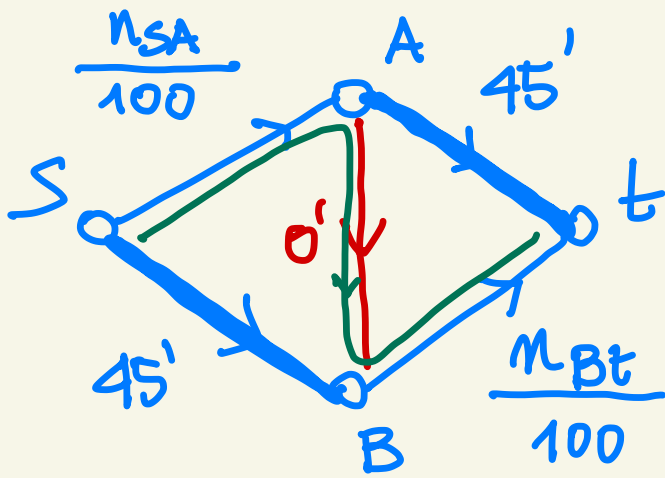



$(x_1^*, x_2^*, \dots, x_n^*) \in \text{E.N. se } \forall i \in N$

$$x_i^* \in \beta_i(x_{-i}^*)$$

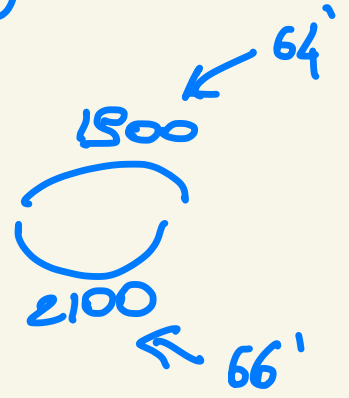
- se per ogni giocatore i \exists una strategia debolmente dominante $\bar{x}_i \Rightarrow (\bar{x}_1, \dots, \bar{x}_n) \in \text{E.N.}$

- tuttavia \exists giochi in cui non ci sono strategie dominanti ma \exists E.N.
(BATTLE OF SEXES)

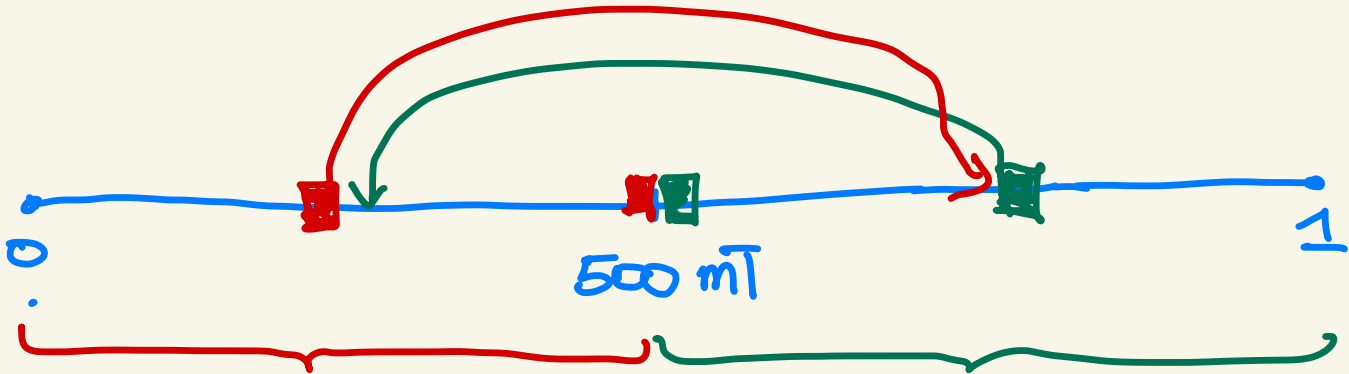


$$M_{SA} + M_{Bt} = 4000$$

$$\begin{pmatrix} 4000 \\ 2000 \end{pmatrix}$$



4000 $\swarrow \searrow$ E.N.



POLLUTION GAME

N giocatori

$$X_i = \begin{cases} \text{CONTROLLO EMISSIONI} \\ \text{INQUINARE} \end{cases} \quad i \in N$$

$x_i = 0 \equiv$ inquinare

$x_i = 1 \equiv$ controllare strategie

$$C_i(x_1, \dots, x_n) = 3 \cdot x_i + \sum_{j \in N} (1 - x_j) =$$

$$= 2x_i + 1 + \sum_{\substack{j \in N \\ j \neq i}} (1 - x_j) =$$

$$= 2x_i + \underline{(1+t)}$$

$t = \# \text{ giocatori diversi da } i \text{ che inquinano}$

$$C_i(x_1^*, \dots, x_n^*) \equiv C_i(0, \dots, 0) \equiv C_i(\text{inf}, \dots, \text{inf}) \\ = \eta$$

$$C_i(1, \dots, 1) = 3$$