Sor ble correlded équilibrieur P(S,B) -Experted whility of player (For Following allia B is $P(B_2|B) \cdot 2 + P(S_2|B) \cdot 0$ -Experted whiley of player 1 For mot Following advice B is P(B21B).0 + P(S21B).1 CE equivolents (proof)

[lee: Write $P(S_{-i}|S_i) = \frac{P(S_{-i},S_i)}{P(S_i)}$ ond nose blak ske denni nuston doesn't defend on si. timally, nose slur i5 P(Si) =0 (slev necessorile ?(Si,Si) = 0, so ble inequally 2. From Preposition is Sciencelle Steel.

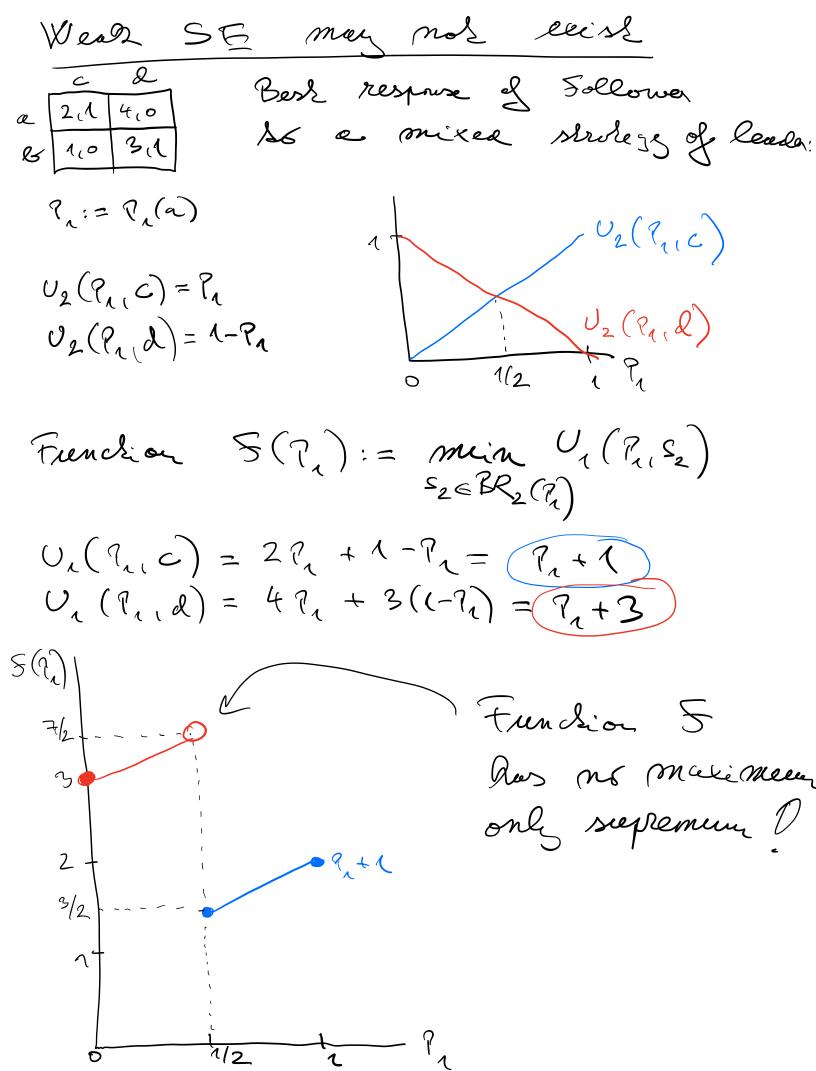
Bad or Shemman:

NE indua CE:

B S

B 1 0 1 0 0 0 2/9 4/9 6/9

S 0 0 0 1 1 1/9 2/9 3/9



SE in 2-player pers-sun games $\epsilon_{2} \in \mathcal{BR}_{2}(?_{1}):$ $U_{2}(?_{1},\epsilon_{2}) = \max_{S_{2} \in S_{2}} U_{2}(?_{1},S_{2})$ $\langle = \rangle$ $U_{\lambda}(P_{\lambda_1} \in 2) = \min_{S_2 \in S_2} U_{\lambda}(P_{\lambda_1} S_2)$ Wend SE: leader solves ble problem mae mine $\ell_1 \in \Delta_1$ $\ell_2 \in BR_2(\ell_1)$ $U_1(\ell_1, \ell_2) =$ = mue min min $(P_1)^2 = P_1 \in \Delta_1 \quad \mathcal{E}_2 \in \mathbb{R}(P_1)$ $\mathcal{E}_2 \in \mathbb{R}_2$ = mae min $O_{\chi}(P_{\chi}, S_2)$ $P_{\chi} \in \Delta_{\chi}$ $S_{\chi} \in S_{\chi}$ Skring SE: analogousle, leader solves mux max $O_{\lambda}(P_{\lambda}, \mathcal{E}_{2}) = P_{\lambda}(P_{\lambda})$ = mae mae min $\mathcal{O}_{\lambda}(P_{11}S_{2})$ $P_{1}\in\mathcal{S}_{1}$ $\mathcal{E}_{2}\in\mathcal{BR}_{2}(P_{1})$ $S_{2}\in\mathcal{S}_{2}$ = max min $O_{\lambda}(P_{1}, S_{2})$ $P_{1} \in S_{1}$ $S_{2} \in S_{2}$

Skavinski, rensited Back or Tel De ron Perger be De læder a 211 0,0 ond ? ED, le De commissered. 8 000 112 Then $U_2(?_{l},c) = ?_{l}$ (where $?_{l} := ?_{l}(e)$ ond $O_2(P_n, d) = 2 - 2P_n$. This means Show BR 2 (Pn) = $\begin{cases} d & 0 \le 7 < 2/3 \\ 4 < n \le 3 \end{cases}$ $\begin{cases} R_1 = 2/3 \\ C & (2/3 < 7 \le 1) \end{cases}$ We analyze Frenchicere $S(P_{\lambda}) := \min_{S_2 \in BR_2(P_{\lambda})}$ OL(PUSZ) 049, 42/3 $= \begin{cases} 1 - \ell_1 \\ 2\ell_1 \end{cases}$ 2/3 49, 41 This implies blus Strong SE = very SE,

and $P_{\lambda}^* = 1$, $S_{2}^* = C$ so this is a pure NE. 2/3 1

Advertisine competition Two completing 5 irunes (row /colemna)
can eirler advertise or not. Advertising is corsty but com steel cursomers it she other Firm doesn't advertise. a [2,2 4,1] n 1.4 3.3The same has a renigne NE (2, a) since the shrickly durainment strolegy For each Firm is So advertise. Now, De mærdet ræelosor wænde So send privale recommendations generaled les æ probelikte distribution P. Els desk væn Pis a CE: p(a,a) +3(a,u) = 2p(a,a) + 4(a,u) 2P(n(a)+4(n(n) = P(n(a) +3P(n(n) (2)P(q(a) +3P(n(a) = 2P(q(a) +4P(n(a) (3) (4) 28(a,n) +38(n,n) = P(e,n) +3P(m,n)

 $P(a_1n) = 0$ (4) = 7=) $P(\alpha,\alpha)=($ P (~ (~) =0 (3) => (2) => ? (m, a) =0 This means blue ble only CE is le remique NE. There is no point in coordination For Dus gare sina ble Firms have stidly dominant strokgies. While if the now Firm Rooses Fires? Then $U_2(P_1,\alpha) = 2P_1 + 4(1-P_1) = 4-2P_1$ $U_2(P_1(n) = 1P_1 + 3(1-P_1) = 3-2P_1$ where $P_1 := P_1(a)$. megaine blus BK2(P)= 208 4 RE FOILS

The leader (row 5 irm) Maximizers $V_{1}(P_{1}, \alpha) = 2P_{1} + (1-P_{1}) = P_{1} + 1$ The remise CE (weak Island)
is (a, a).