

$$p = (p_1, p_2) \quad q = (q_1, q_2)$$

$$\pi = (s_1, s_2, s_1(1-s_2), (1-s_1)s_2, (1-s_1)(1-s_2))$$

$$s_1 = \frac{q_2 r_1 + p_2}{1 - r_1 r_2}$$

CD

$$s_2 = \frac{p_1 r_2 + q_2}{1 - r_1 r_2}$$

DC

DD

$$r_1 = p_1 - p_2$$

$$r_2 = q_1 - q_2$$

$$\pi M = \pi$$

$$A = \begin{pmatrix} R & S \\ T & P \end{pmatrix} \quad B = \begin{pmatrix} R & T \\ S & P \end{pmatrix}$$

$$s_1 s_2 R + s_1 (1-s_2) S + (1-s_1) s_2 T + (1-s_1)(1-s_2) P$$