

$n \Rightarrow n!$ (fixed) \times

simple \leftarrow far

$f(e_1, e_2) = p(e_1, e_2) \quad [t_1 = -]$

\uparrow
 \neq order

$\max_{k \in \{1, \dots, n\}} \sum_{i=1}^n p(a_i, b_{k_i})$

$\begin{bmatrix} 1 \\ 0.5 \\ 0 \end{bmatrix}$

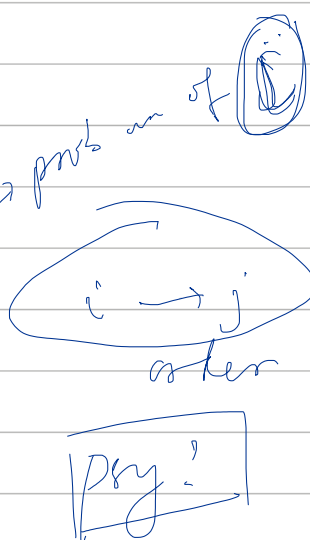
Fixed!
 white 1rs
 vs 2.
 b

asm: $x_{ij} \in \{0, 1\}$

supply: $\sum_j x_{ij} = 1 \quad \text{for } i = 1 \rightarrow n$

dem: $\sum_i x_{ik} = 1 \quad \text{for } k = 1 \rightarrow n$

$\max \sum_{i,j} x_{ij} \cdot p(i,j) \cdot \begin{bmatrix} 1 \\ 0.5 \\ 0 \end{bmatrix}$



* Order of round: fixed: $\begin{matrix} 1 & 2 & 3 \\ 0 & 0 & 0 \end{matrix}$

$p(i,j, \text{index}) \begin{matrix} 1 \rightarrow \text{mult} \\ 2 \rightarrow \text{blue} \\ \%2 \end{matrix}$

fixed (order \rightarrow color \rightarrow k)

* We don't know strategy! 1st choose the best
 { 2nd ~ }

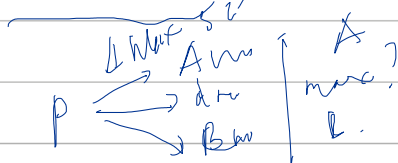
A 1 strategy: permutation: $\{1, 2, \dots, m\}$
 $\{1, \dots, n\}$

	B	C	D	...
A				
T		1	1	
S				
TC				

$n \times m$

is equilibrium

2 reverses



$A \in B = \{1\}$

Nash equilibrium opt

A \ B	I	II	III
I	(1, 2)	(1, 1)	(1, 1)
II	(1, 1)	(1, 1)	(1, 1)

best for all

$A - B$

Calculate

$\max = \max$

checking pure strategy

has a ~~set~~

Nash equilibrium:

For A: fixed $p_1, \dots, p_n \Rightarrow$

Max min (g_1, \dots, g_n)

s.t. $0 \leq p_i \leq 1$

A: $g_1 = p_1 \cdot b_{11} + p_2 \cdot b_{12} + \dots + p_n \cdot b_{1n}$

$g_2 = \dots$

what you pick p_i higher

For B: fix q_1, \dots, q_n

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