













• With two players, simultaneous move games are most easily represented by matrices showing strategies in columns and rows and payoffs in cells.

A	Matrix Gar	ne
Firm 2 Firm 1	Price High	Price Low
Price High	(500, 500)	(100,700)
Price Low	(700,100)	(200,200)
	1	8

7



	Mee	ting in	NYC	
Me Nicholas	Met (1)	Met(2)	Empire State B	Times Square
Met	(1,1)	(0,0)	(0,0)	(0,0)
ESB	(0,0)	(0,0)	(1,1)	(0,0)
TS	(0,0)	(0,0)	(0,0)	(1,1)
	1			1



A	Matrix Gar	ne	
Firm 2 Firm 1	Price High	Price Lo	w
Price High	(500, 500)	(100,700	))
Price Low	(700,100)	(200,200	))
	I	·	12









		B1	B2	B3	B4	B5	B6	B7	B8
	<b>↓</b> 1	H							н
A	12		Н	н		H	Η	Н	н
A	\3		Н	н	Н		Н	Н	н
A	۸4		Н	Н	Н	Н	Н	Н	н
A	۰5				Н	Η			
A	۰6		Н	Н	Н		Н	Н	н
	۲		Н	Н	Н		Н	Н	н
A	۸8	Н	Н	Н	Н		Н	Н	н







	E	xample	e 1	
<ul> <li>Stra play</li> </ul>	tegy R2 is doi er's payoff)	minant (firs	st number i	s row
	C1	C2	C3	C4
R1	(1,1)	(5,2)	(0,10)	(3,4)
R2	(2,6)	(5.5,7)	(1,1)	(3.5,4)
·		1	1	22

	E	xample	e 2		
<ul> <li>Strate player</li> </ul>	gy R2 is NOT 's payoff). Do	dominant (fir es Column pl	st number is ayer have a	s row DS?	
	C1	C2	C3	C4	
R1	(1,1)	(5,2)	(0,10)	(3,4)	
R2	(2,6)	(5.5,7)	(3.5,4)	(1,1)	
					23

	E	Example	e 3	
<ul> <li>What become</li> </ul>	: would have me a DS?	e to be the v	alue of x	for R2 to
	C1	C2	C3	C4
R1	(1,1)	(5,2)	(0,10)	(3,4)
R2	(2,6)	(5.5,7)	(x,4)	(3.5,1)
	·		·	24



The F	Prisoners' E	Dilemma
Bonnie Clyde	Stay Silent	Confess
Stay Silent	(-1,-1)	(-10,0)
Confess	(0,-10)	(-5,-5)
	1	

The F	Prisoners' l	Dilemma
Bonnie Clyde	Stay Silent	Confess
Stay Silent	(-1,-1)	(-10,0)
Confess	(0,-10)	(-5,-5)
		27



-	The	Matrix	k Gai	ne Ve	ersior	)
	SO	W	FB	S	MB	HR
Wait	Inning ends	Advance to 2	Inning ends	Advance to 2	Advance to 3	Score
Go	Inning ends	Advance to 2	Inning ends	Advance to 3	Score	Score
		1				29







80	80	70
00		
00	\$72K, \$72K	\$24K, \$110K
70	\$110K, \$24K	\$70K,\$70K



A pricing dilemma: The Last period of a two stage game (first game played so that profits were (\$xK,\$yK).		
	80	70
80	\$72+xK, \$72+yK	\$24+xK, \$110+yK
70	\$110+xK, \$24+yK	\$70+xK,\$70+yK
L		35

