





Repeated Game

- Each period is then a different game
- You are playing repeated games

KENT STATE

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Repeated Games • Return to our basic problem Q = 100 - 2p MC = 5• Assume two firms, who must announce a price at the start of each period. • Winner-take all market.

Repeated Games

Repeated Games
 The monopoly solution is

 p = \$27.50, *π* = \$1012.50, *Q* = 45
 With a cartel, each firm makes \$506 each period.

 Suppose one firm cheats, announces a price of \$26.50. It sells Q = 47

 π = (47)(\$21.50) = \$1010







]	Гhe	e Pay	voff
Of of as as crea	course, this ssumes a dible threat	S		
	Period	C	heat	Don't
				Cheat
	1	\$1	010	\$506
	2		\$0	\$506
	3		\$0	\$506
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What Firm 1 Did Last Period?	Firm 2's Strategy this Period	
Followed the Cooperative Strategy	Follow the Cooperative Strategy	
- 	Follow the Non-cooperative Strategy	



The Tit-for-	Tat Strategy			
What Firm 1 Did Last Period?	Firm 2's Strategy this Period			
Followed the Cooperative Strategy	Follow the Cooperative Strategy			
Followed the Non-cooperative Strategy	Follow the Non-cooperative Strategy			
This is a cre	edible strategy.			
Repeated Games				

