

		Player A			
Pay	offs	Cooper	ate	Defect	
Player B	Co- operate	1	1	4	0
	Defect	0	4	2	2

Iterated Prisoner's Dilemma (IPD)	Ú
◆ Axelrod organized two tournaments in 1980 — Round one: 14 entries	
 Round two: 62 entries from 6 countries Tit-for-Tat was the winner in both runs Start by cooperation 	
 Then follow whatever the opponent did last round GRIM is an alternative local optimum Like Tit for Tet except being unforgiving	
Like Tit-for-Tat, except being unforgiving	

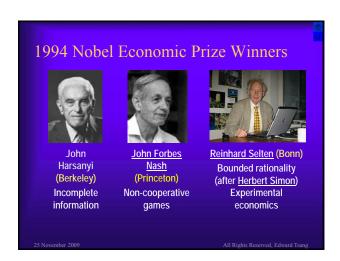


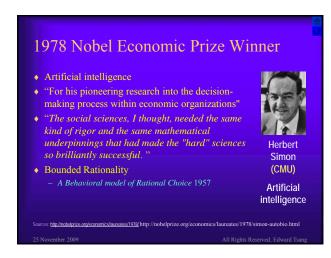


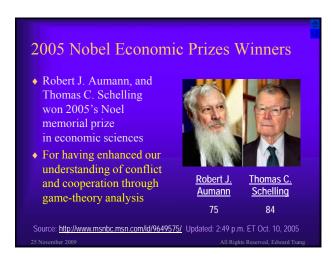












Robert J. Aumann Winner of 2005 Nobel Economic Prize • Born 1930 • Hebrew Univ of Jerusalem & US National Academy of Sciences • "Producer of Game Theory" (Schelling) • Repeated games • Defined "Correlated Equilibrium" – Uncertainty not random – But depend on info on opponent • Common knowledge

Thomas C. Schelling Winner of 2005 Nobel Economic Prize • Born 1921 • University of Maryland • "User of Game Theory" (Schelling) • Book "The Strategy of Conflict" 1960 — Bargaining theory and strategic behavior • "Book Arms and Influence" 1966 — foreign affairs, national security, nuclear strategy, ... • Paper "Dynamic models of segregation" 1971 — Small preference to one's neighbour → segregation 25 November 2009 All Rights Reserved, Edward Tsang