Prisoner's Dilemma Example 2: If they both stay quiets => each will spend I you in prison.

If one and only one of them finds => 4 you fail to the other person. If both fink =) euch will spend 3 yra in prism.

strategic game! Players => The 2 suspects

Actions => Ench players set of actions is {Quiet, fish }

Preferences => Suspects 1's ordering of the action peoples, from
bust to worst; (fink, quiet), (Quid, Quid) (fink, fink), (Quict, Fink) Suspect 2' A => (Quiet, finh), (Quiet, Quiet) (tink, fink) (fink, Quict) payoff functions: for suspect 1, we need u, for which: U, (Ank, Quiet) > U, (Quiet, Quiet) > U, (Rich, finh) > U, (Duict, Finh) Simple sperification => u1 (F, A) = 3 41 (9,9) = 2 $u_1(Q,P) = 0$ Similarly for suspect 2, U2 (9,8) = 3 U2(0,0)=2 42 (F,P) = 1 42 (f.Q) = 0. 52 Quet | Finh Quiet 2,2 0,3 Fink 3,0 1,1 suspect 1

The bisoner's Dilemma models a situation in which there are gains from cooperation (each player perfers that both players choose Quiet than they both choose fink but each player has an incentine to free side" (doose fish) There are many