Hortung.	Jame Theory Classmate Date 02/04/17 Page
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# H	Perisoners diference
	crime. Each prisoner is offered a bargain- either remain silent
	or betray the other by testifying that he committed the wime. The police offer the following to each eximinal. Fr
	In police offer the following to each cuminal.
	1) If A 10 hallet gold b cochagy ,
	10. 7. 01001. 6.101. 6.101. 11.411. 11.411.
<u> </u>	in I leath A and B betray each other, both the
	iii) of both remain silent, each shall be dentenced for
	Juis ean le represented in the following way-
	* This can be appresented up the fortunary many
	Prisoner B
	Betray Cooperate
	(W 2 B 3 B
	2 0
10	Z CLS A
	3 3 6 0
	B B I I I I I I I I I I I I I I I I I I
	3a V
	The interesting part is: from the perspective of each
P	additional of the to the street of the stree
	and works to the discountry in the continue
	is ittle and insolution willow very surprise tous
	Mutin letitude 18th of 18 hap a regiment
	supporte decause the chance to so-operate is
	institual for a self interested individual.
#	Grame theory -
	traine theory is the formal study of conflict on a confession, have theoretic operations
	and wisheshing, name avenue quantity
	and confessions. These agents maybe
	Min into - do bandend. These agreets maybe

individuals, groups of fines or any combination of these. The concerts of game throug provide a language to formulate etucture, analyze and understand strat-- egic situations. · Each player has finite up. of participents called players. · Every game results in an outcome, which is caused the bay-off. . I strategy can be of two types-· Type I - of the players solice the same strategy every time, then it is a pure strategy. Shis happens when a player knows exactly what the other player will do and the objective is to naxinize the gaine or minimize the loss. · Type 2 - When the players use a couldination of strategies and each thayer teeps gensing the other flayers' strategy. Then it is a mixed strategy In this case the objective is to masinize gain or winimize loss with a certain probability · Du optimum strategy is the course of action which futs the player in the most favourable position inchective of the strategies of the strategies of . The expected hay off when all players follow their of time strategy is called the salle of the game & game is fair if the value is zero, and unfair otherwise. The hayoff for the strategies used by each player can be represented in a matrix form called the hayoff matria. For a zero-sum game, the loss of one player should be equal to the gain of the other. So, one hayer's pay-off matrix will be the want of the signs changed.

The hayoff matrix for prisoners dilumng for prisoner A would be as follows.

