Implementing a 2-Player Strategy Game	
Player Type = {human, computer }	
Erther Player can go first	
allows human vs. human	
or .	
human vs. competer	applicable
Player Type Player Type State	applymove (move, state
human player player	wrnner?(state (boolean)
getmore determine ask player input a more from set of approache	eval (state) herns tic

get more validate (is this a legal more?) Minimax, Level 0 Select a move st include: random from set of legal moves performance IDEA: give player a list of legal metrus moves ous a menu Minimax, Level 1 # of nodes expand-1 (sometimes impractical) Select a move by # of calls to eval applying eval for to with and without pruning Set of legeal moves timer - to Minima, Level &=2 monitor actual ant. of time Select a move by used by computer applying eval I'm to a k-move lookahead use Herative (including apponents

Potential moves) Leepening allow ox-b pring =

```
Start

Name of player 1

Type of player 1 (human computer)

Name of player 2

Type of player 2 (human, computer)

Which player goes first? (1 or 2)
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State representation > might want to compress state so can

save more in majoring

Rule/Move representation > and then unpack to apply eval f'n

precondition (state) rule, player)

applicable Moves (player, state) =

apply more (state, rule, player)

64 squares

only 32 on

which precess

more

"Straightforward" state repre	Contation:
20 array of cells pieces red black	regular
em	pty
EXE array:	
of Somoto King and Ki	ing black, regular red, regular black?
Unvsed ("Other" 32 sq	vares)
W 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
(ompact Representation	3 32-bit words 1 bit per usable cell?
	•
every cell's value can	red:
	black
be Letermined From 3 bits	place:

IDEA	: store states in compact form
	"unpack" into "straightforward form
	to do evaluation move generation etc
	more generation
	etc
Use of co	manch marracontation allows some info to be ached (Vactor man
	impact representation allows some info to be cached (Kept in man
Use of co	