PROBLEM 2 IF ONE OF THESE STATES IS A PNE THEN WE ARE DONE ol (MNE INCLUDE PNE) OTHERWISE ONE OF THESE TWO CYCLES OF (STRICT) BEST-RESP. OMSE MUST EXIST: (PROOF AT THE END)

MNE CYCLE COL Row CONDITIONS (FOR MINE) (1-9)B = 9D +(1) ROW IS INDIFFERENT BETWEEN THE TWO STRATEGIES PQ+(1-P) 01 = Pb+(1-P) = (2)COL IS INDIFFERENT BETWEEN THE TWO STRATEGIES

(1) MAS A SOLUTION:

$$(1-9)(C-B) = 9(A-D)$$

$$(1-9)C-B = 9$$

$$(A \neq D)$$

$$(A \neq D$$

b>e ol<c b>e ol<c clockw. courtence. cycle cycle

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NO PNE > CYCLE (CLOCKWISE OR COUNTER) BY DEF OF BEST-RESPONSE, ANY SEQUENSE OF BR MUST ALTERNATE col, now, col, now, (\mathtt{I}) OK pow, col, Row, col,__ (\mathbb{T}) BECAUSE THERE ARE ONLY TWO PLAYERS START FROM STATE Aª (\mathfrak{T}) GIVES A CLOCKWISE CYCLE (\mathbf{T}) 1 COUNTERCLOCK WISE CYCLE