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1 If a card is showed to you, mark 'no' "X"
Tachardions
1) Fill in player names in order of turns  1) " number of cards for each person  1) " number of cards for each person  2) " cards that are in your hand "O"s  3) " cards that are in your hand "X"s
That your cards are not in any other hand or the  Case File X' & Whenever you mark a "O" mark "X" s for all  When a player cannot disprove a suggestion, mark "X" in the appropriate positions  (F) when a player shows you a card, mark "O" in the appropriate box
(3) When a player shows another player a card, and you do not know the first player has any of the three cards, mark the non "X"s with a number {1, Z,}  (9) If you ever mark a "O" in a box that had a number in it, erase numbers that match, thereby assumming player showed same care
(1) Whenever a "O" is marked, mark "X" for the other players for that ca (1) If player has same number of possibilities as unknown cards, mark all those possibilities as "O"
(1) If all of a player's cards are known, mark other possibilities "X"  (3) If all but one card in a category are accounted for, that  card is in the case file "0"
B If no player has a card "X", it must be in the case  (b) If "x" replaces numbers, check for lone numbers  (5) If all three cards in the case file are known "0", you win  (7) If lone number found, mark it "0"
$(16 \Rightarrow 17)  [7 \Rightarrow 10, 12, 13]  [0 \Rightarrow 11, 14]  [7 \Rightarrow 9, 10, 12, 13]  [8 \Rightarrow 17]  [13 \Rightarrow 15]  [16 \Rightarrow 17]  [17 \Rightarrow 10, 12, 13]  [10 \Rightarrow 11, 16]  [11 \Rightarrow 13]  [12 \Rightarrow 14]  [14 \Rightarrow 15]$

ice (O, # cards) (#players + 1) (# Cords)

La E [O, # cards] total atomic sequences Gold # = ig x Hards + Lc + 1 & clauses - monotonically growing knowledge base queryclauses - stemporary, often-changing set of clauses numPlayers player Num num Cards casefile Objects and their attributes players = [ ] suspects=[..] weapons=[--Guess: guesser, person, place, thing, shower, card rooms=[ - ] cards = [ & lasgeects, weapons Show shower, person, place, thing, shower rooms 7 (Knowledge) na Kn MU 10 ca PI 1 Each card is in exactly one place di ve 95 @ One card of each type is in the case file (exactly one Ki VO PR Pi 50 00 WV wh Initial HAND bi Cf 11 1 You know what is in your hand is NOT in anyone else's. 5+ @ You know how many cards each player has 3 You know the order of the players

Suggest ("Sc", "wh", "pi", "ha", "pe", "ha")

(Suggester, suspect, weapon, room, revealer, revealed card)

revealed card can be NIML; revealer can also be NIML

accuse ("sc", "wh", "pi", "ha", FALSE)