Game theory

- -> Two ore more players
- -> sequential moves
- -> partial game / impartial game.
- -> state .
- -> Winning / losing state.

problem

- 1 Miraror move (problem).
- 2 Pattern

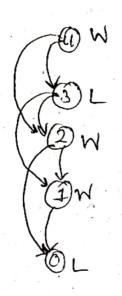
	n	first	
(whose is the	7X O -	Ŀ	· .
Pick \le 2	1.	W	
n	2	W	
	3		
	4	W	
Only one pile	5	W	
with non stones	6	L	
	7	W	
	•	1	

first player seday cossing state 2001

first player seday cossing state 2001

of fresh(k+1) 2204 one(m) \$1055220

of decembe win 2001



winede = If has an edges to a winning

L node = All edges result to a winning

node.

Piles.

then at the player choose some stones from ak.

Who cannot pick any stone loose the game.

problem line (sequential more) es

W NIM Theory :

al laz ... lan

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X = a, 1 a2 1 . - 1 an

or >0 Winning state for Prist players

xor = 0 lossing state for Prist players

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