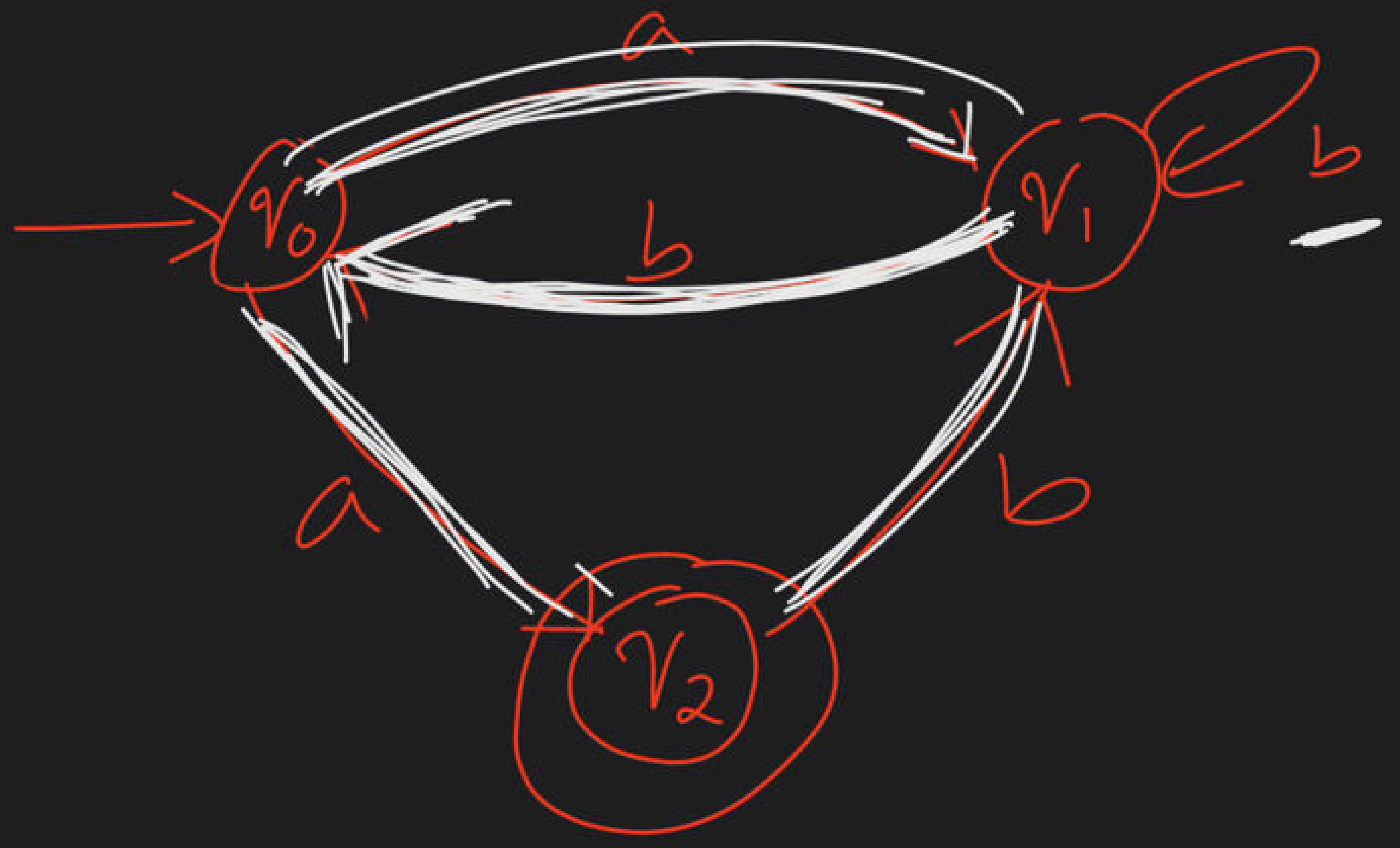
ex

F/IF ?



1 Not reachable delete

2 Dead state delete

3 Loop && atleast 1 F

Infinite Lang

∀ F

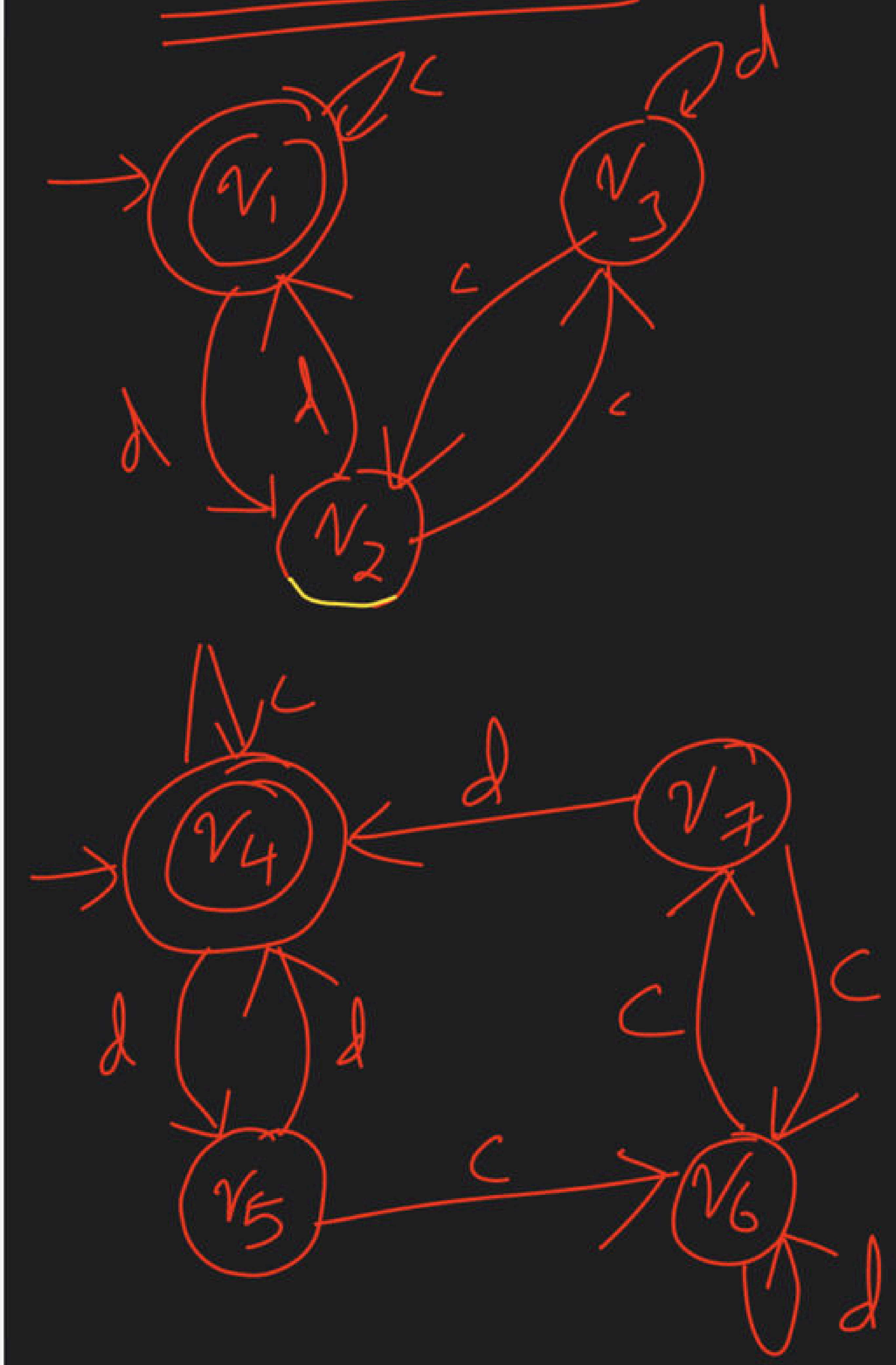
Finite

Y ∅

empty → finite

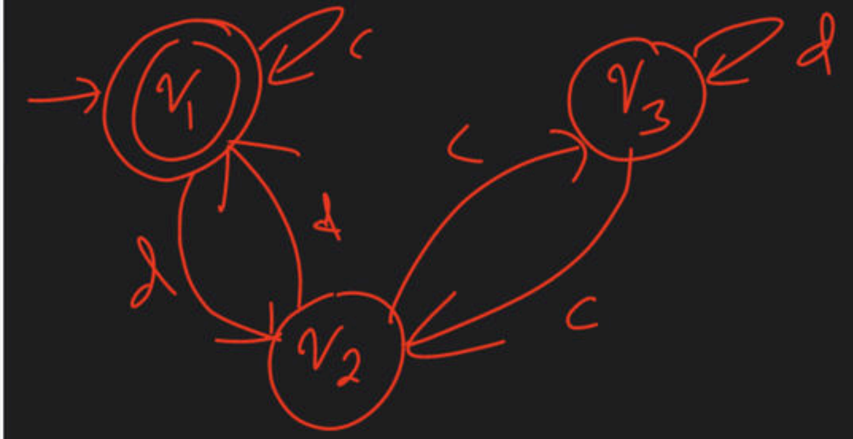
Equality

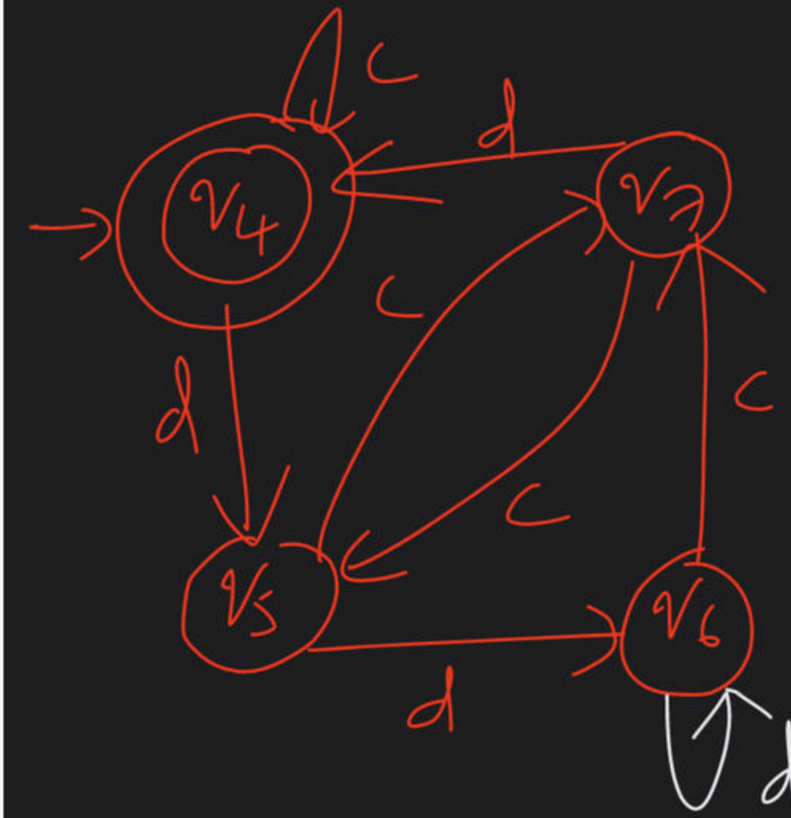
ε, cccc, dddddd dccd



	c	d
→ (v_1, v_4)	(v_1, v_4)	(v_2, v_5)
(v_2, v_5)	(v_3, v_6)	(v_1, v_4)
(v_3, v_6)	(v_2, v_7)	(v_3, v_6)
(v_2, v_7)	(v_3, v_6)	(v_1, v_4)

untill now they are behaving same & nothing new further, so both are equal.

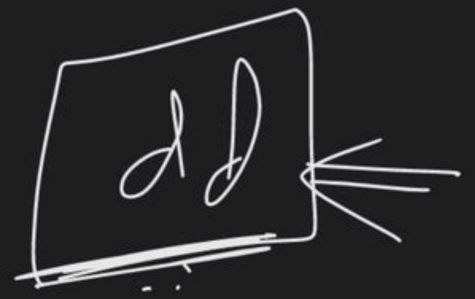




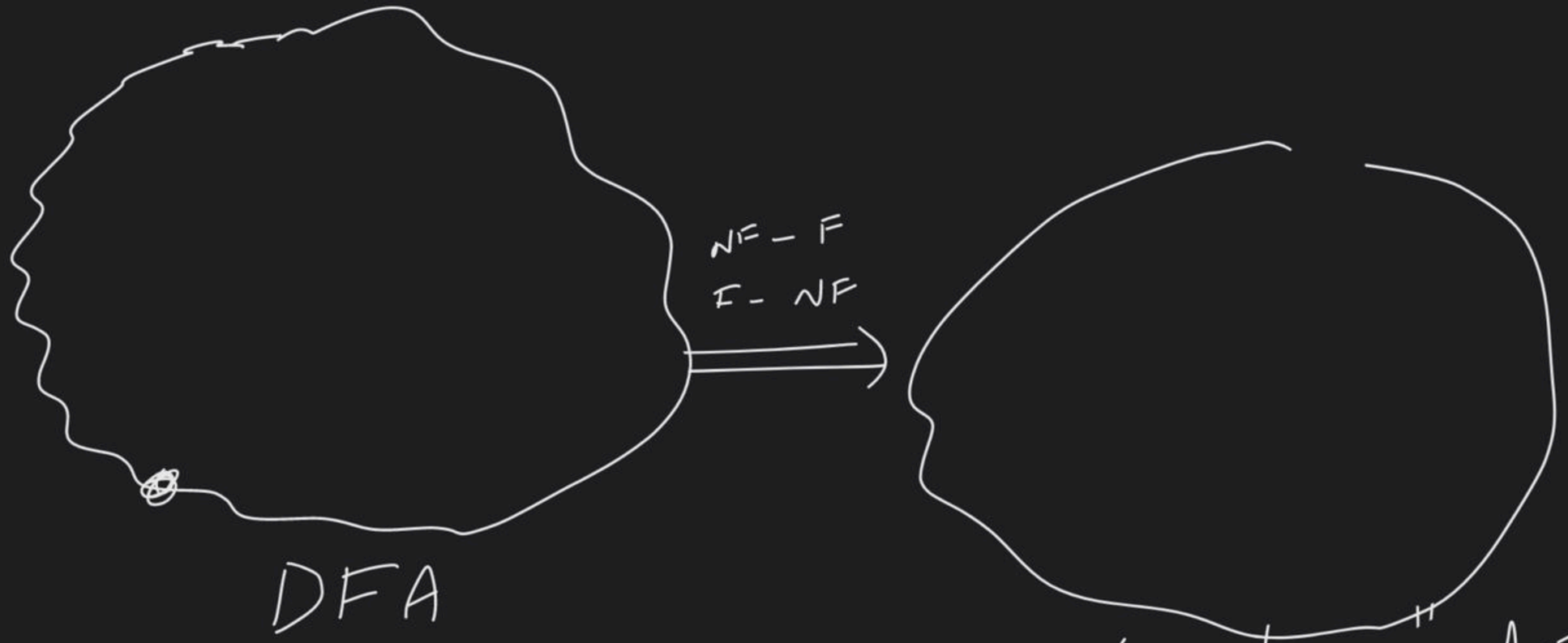
Comparision Table

	c	d
→ (v_1, v_4)	(v_1, v_4) E E	(v_2, v_5) N N
(v_2, v_5)	(v_3, v_3) N N	(v_1, v_6) E N

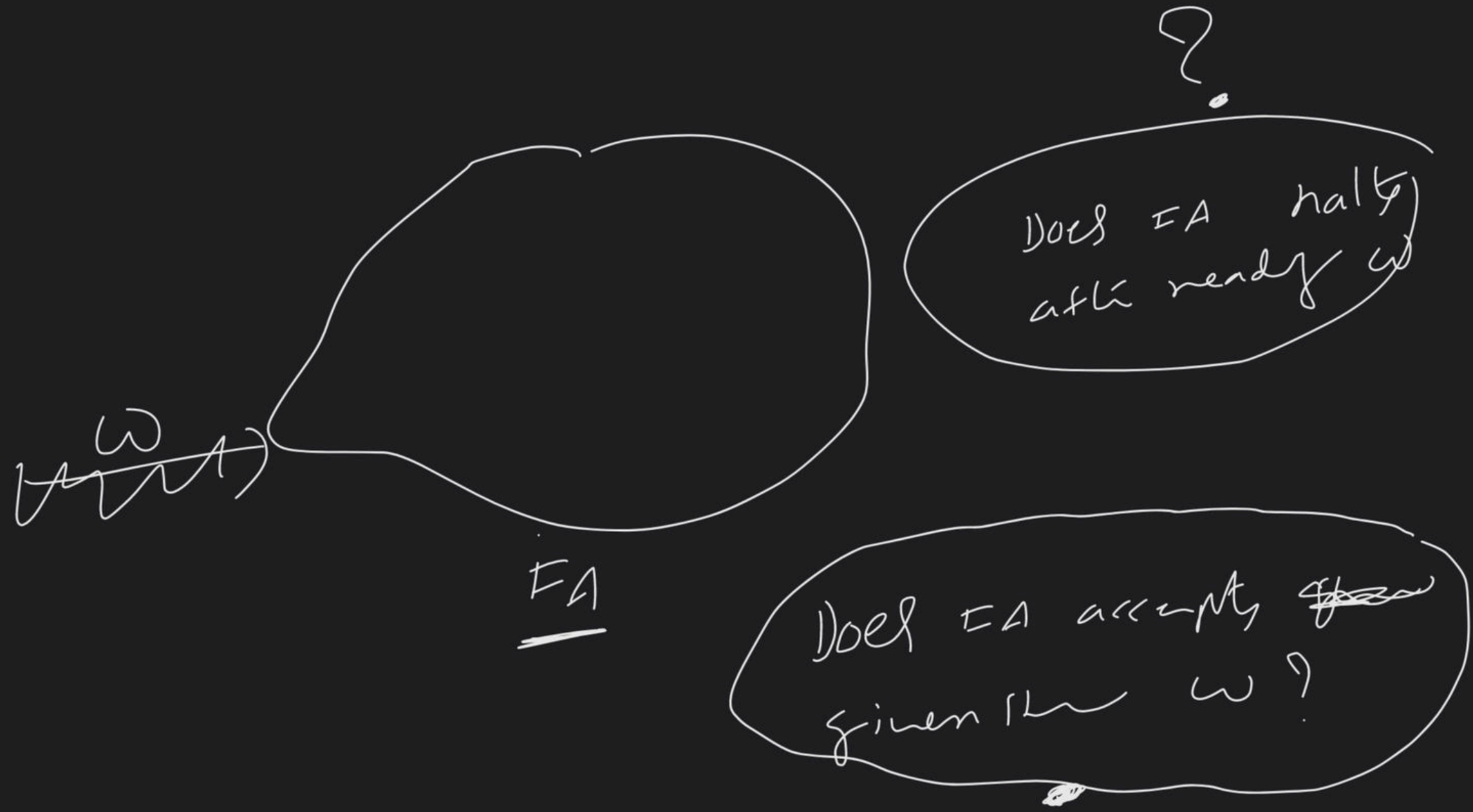
both are not same here



one is E and another is Non-E



Completeness of FA is decidable


?
Does EA halt after reading w
w
EA
Does EA accept given w?

Minimization of FA (DFA)

Note (1): If any 2-states behaving as same then make it as single state.

(2) before applying minimization algo remove unreachable states.

1. Table Filling method $\Longrightarrow O(n^2)$ Time

2. Partition - Algo $\Longrightarrow O(n \log n)$

3. Myhill - Anilnirode Theorem

Partition - Algo

Thank you all
Dedicate Hats