

DFA: chars sum to Omal 3?

1. DFA → GNFA.

- start state w/no incoming addes

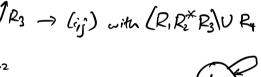
edge - end state w/no outgoing

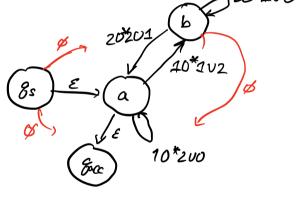
- edges between every edges.

there state pair

2. Rip out state c.

	/ · · ·
(R, R2 R3)UR4	_ 🖰
7 (\$O*2)UE	= 8
Ø U Ø = Ø	
l / . /	
Ø UE = E	
20 1 0	
$\emptyset \cup \emptyset = \emptyset$	
	7 (\$0*2)UE \$U\$ = \$ \$U\$ = \$ 10*2 U 0 10*1 U 2 \$UE = E





3. Rip out state b

817, But
$$6 \cup 6 = 6$$

817, a $6 \cup 6 = 6$
 $0 \cup 6 = 6$

4. Rip out state a.

 $(\varepsilon)(R)^*(\varepsilon) \cup \emptyset = R^*$

((10*1)U2)((20*1)U0)* ((20*2)U1)U ((10*2)U0))*

(equivalent to my original DFA