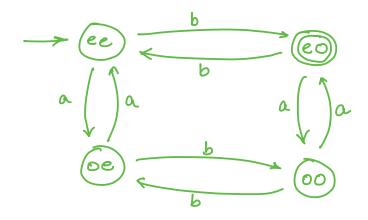
$Q: M_a(\omega) \cong 0 \mod 2$ and

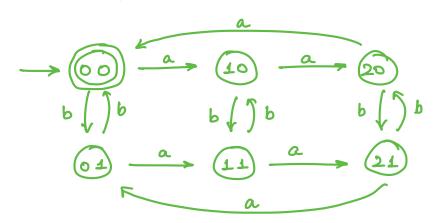
Mb (w) = 1 mod2



Q: DFA Z= {a,b}

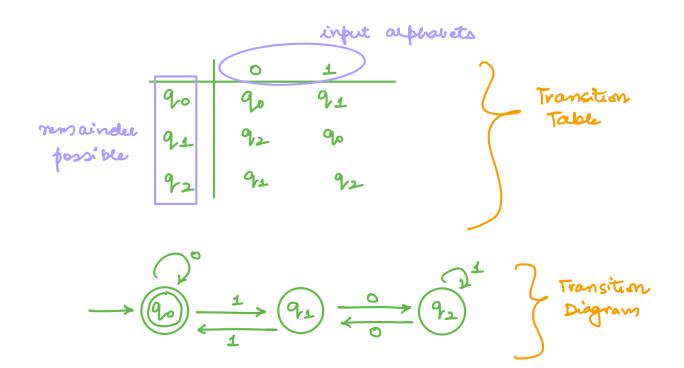
a's divisible by 3 \rightarrow na(w) % 3 = 0

b's divisible by 2 - nb(w) 1/2=0



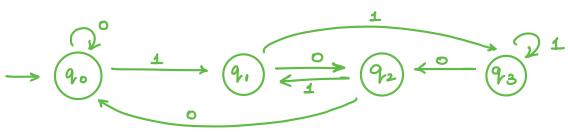
Q: DFA for Strings of 0's and 1's where all binary strings are divisible by 3.

dividing by 3 \rightarrow 0 one state 90 \rightarrow 1 \rightarrow 2 to each 92



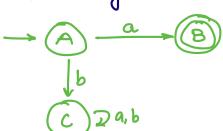
Q: DFA for Strings of 0's and 1's where all binary strings are divisible by 4.

	0	1
90	90	91
91	92	93
92	9.0	9,1
9 /3	92	9,3



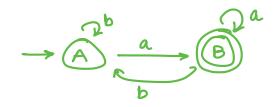
Type 5

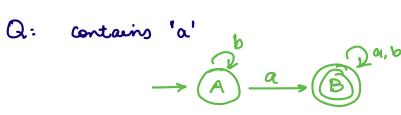
Q: Z= {a,b} Strings starting with 'a'.



Q: Z= {a,b}

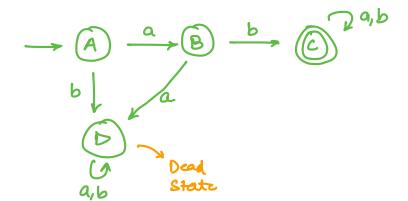
Ending with 'a'



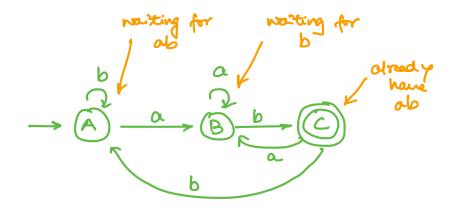


Z= {a,b} Q:

DFA for strings starting with 'ab'



Q: Ending with 'ab'



Q: Contains 'ab'