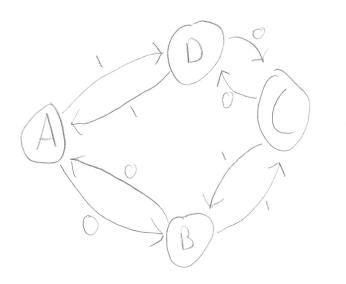


[90,91, 92,93,94,953=F

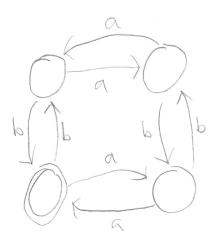
$$L = \{ w \mid w \in (a,b,c)^* \ w \neq abc \}$$

 $R = (a+b+c)^* - abc$



3) DFA to Regular expression

$$0011^*1 + 0101^*1 + 1001^*1 + 1010^*1 + 1100^*1$$



Since I can construct a DFA L, is regular

Pumping Lemma

Lz: W=aabbb W=XyZ

|W|=5 X=aa

|W|>C=4 Z=b

xy2 = aabbbbbb

2m = 5n Since this doesn't satisfy 3m=zn Lz is not regular