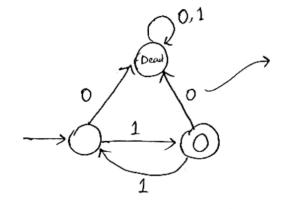
Section 05: MHB Sin

 $L_1 = \{ \omega : \omega = 1^m, \text{ where } m \text{ is odd} \}$ 

L2 = { w: w doesn't contain any yEL1 as a substraing}

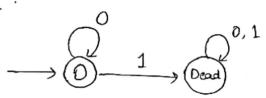
Solve:

b) DFA for L1:



will violate the condition.

c) DFA for L2:



Since L2 con can't contain any substraing of L1, now, if we want to have even numbers of 1s, for example, to get '11', we have to get '1' first. One getting a '1' actually violates the condition

d)  $l=l_1 \cap l_2: \longrightarrow 0,1$ 

if asked for Lilli:

