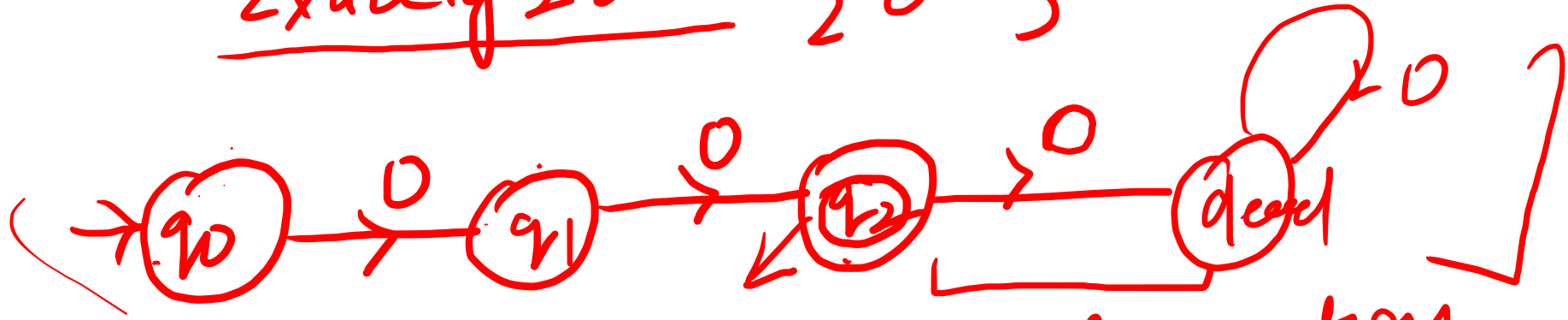


Create DFA with 1 Input Symbol

203

- 1) Exactly 2 0's
- 2) At least "
- 3) Atmost 2 0's

Exactly 2 0's  $\{00\}$



Every state must have transition  
with every I/P symbol

$q_0(0) \rightarrow q_1 \checkmark$

$q_1(0) \rightarrow q_2 \checkmark$

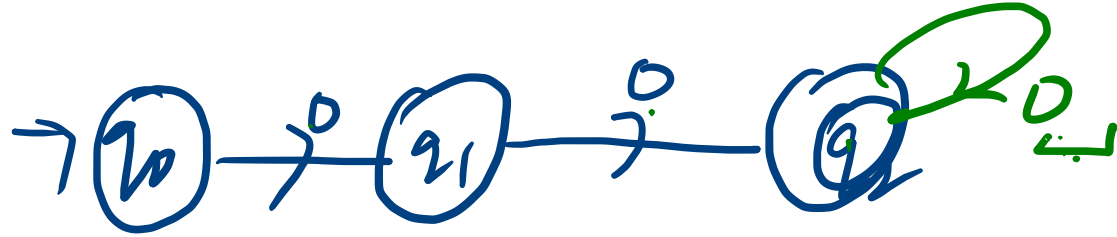
$q_2(?)$

loop  $\rightarrow$  Any no of 0's  
 $\{ \epsilon, 0, 00, \dots \}$

int a;  $1/\leftrightarrow$

Atleast 20's { 0 }

{ 00, 000, 0000 - - - - - }

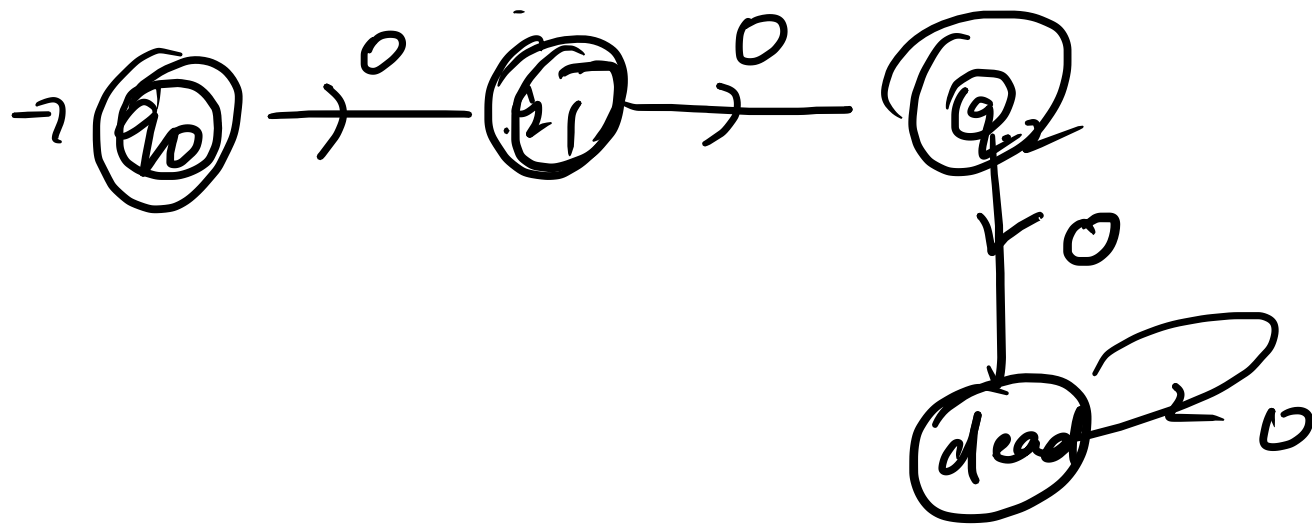


final Answer

Atmost 20's

$\Sigma \{ \triangle, \bigcirc, \underline{\bigcirc\bigcirc} \}$

Q  
Σ  
8  
90  
F



$q_0(0)$   
 $q_1(0)$