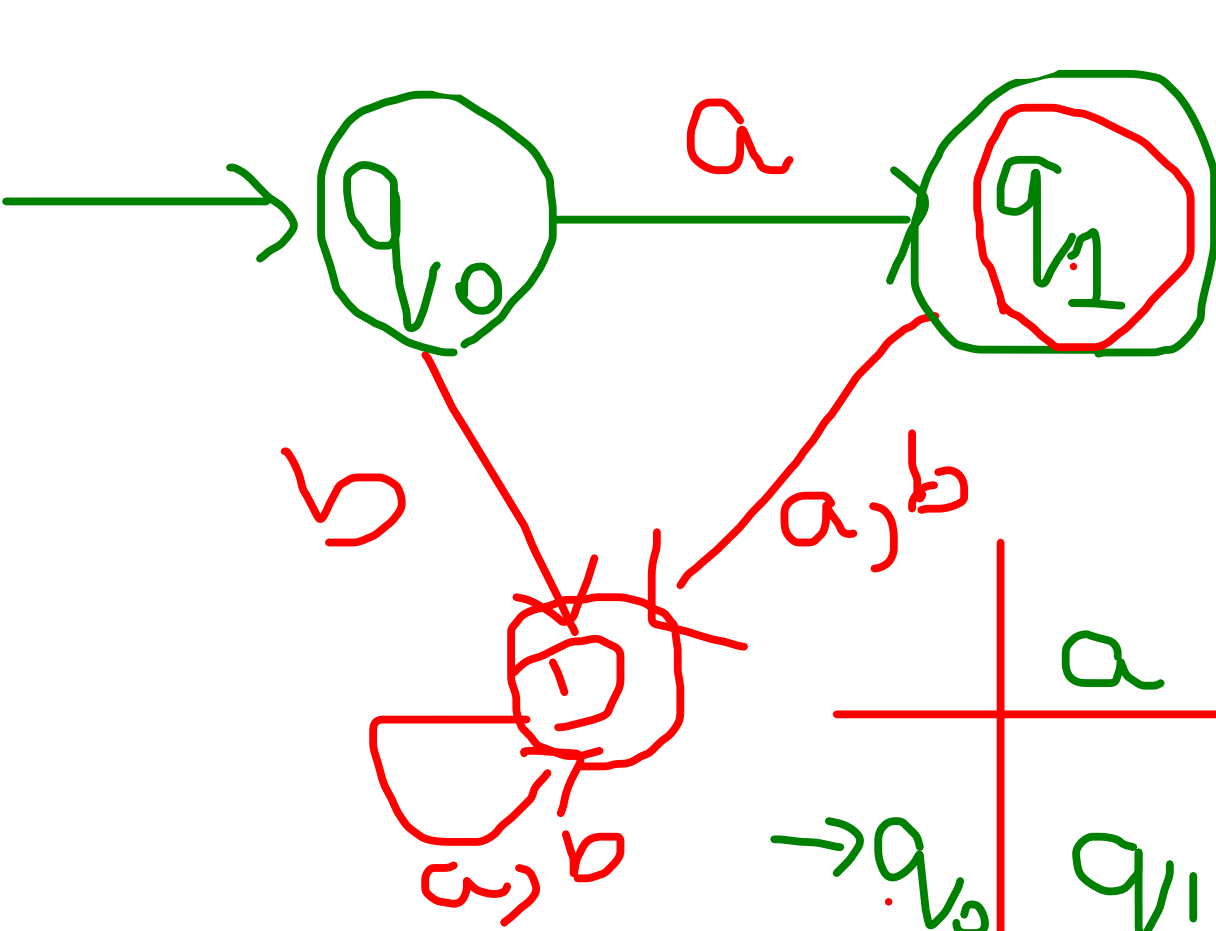


# CONVERSION OF NFA to DFA, 26/09/2020, 9 AM



	a	b
$\rightarrow q_0$	$q_1$	$\emptyset$
$q_1$	$\emptyset$	$\emptyset$
$\emptyset$	$\emptyset$	$\emptyset$

$N$   
 $\{a\}$

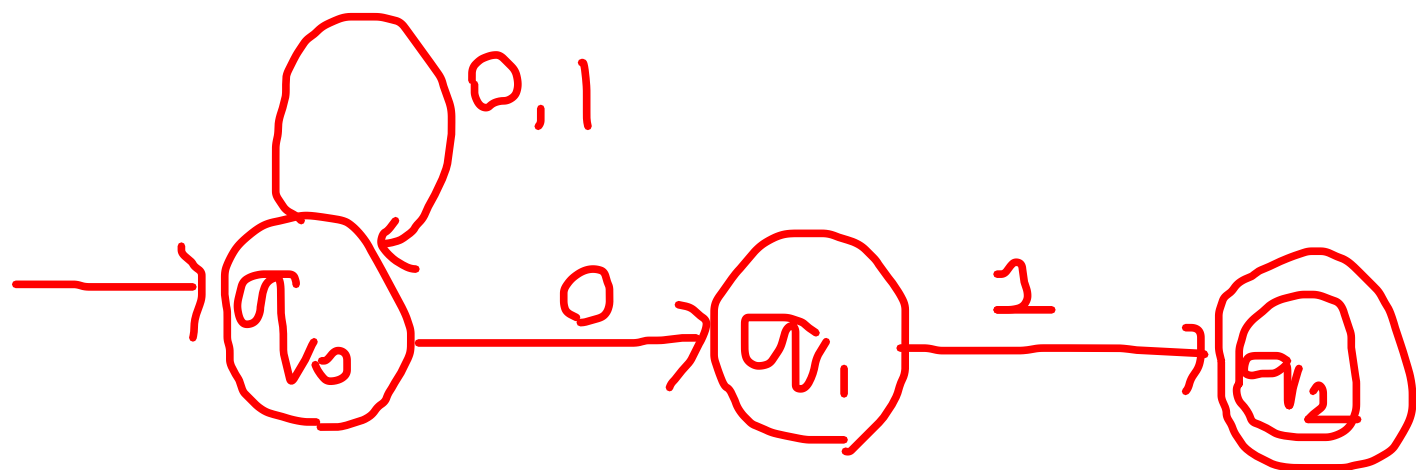
$\rightarrow q_0$   
 $* q_1$

	a	b
$\rightarrow q_0$	$q_1$	$\emptyset$
$* q_1$	$\emptyset$	$\emptyset$

$\emptyset =$

number of  
edge=1  
one entry

Dummy state



	0	1
→ $q_0$	$\{q_0, q_1\}$	$q_0$
$q_1$	$\emptyset$	$q_2$
* $q_2$	$\emptyset$	$\emptyset$

	0	1
→ $q_0$	$[q_0, q_1]$	$[q_0]$
$[q_0, q_1]$	$[q_0, q_1]$	$[q_0, q_2]$
$[q_0, q_2]$	$[q_0, q_1]$	$[q_0]$

	a	b
$\rightarrow a_0$	$\{a_0, a_1\}$	$a_0$
$a_1$	$a_2$	$a_1$
* $a_2$	$a_3$	$a_3$
* $a_3$	—	$a_2$

	a	b
$\rightarrow a_0$	$[a_0, a_1]$	$a_0$
	$[a_0, a_1, a_2]$	$[a_0, a_1]$
	$[a_0, a_1, a_2]$	$[a_0, a_1, a_3]$
	$[a_0, a_1, a_2, a_3]$	$[a_0, a_1, a_3, a_2]$
	$[a_0, a_1, a_3]$	$[a_0, a_1, a_2]$