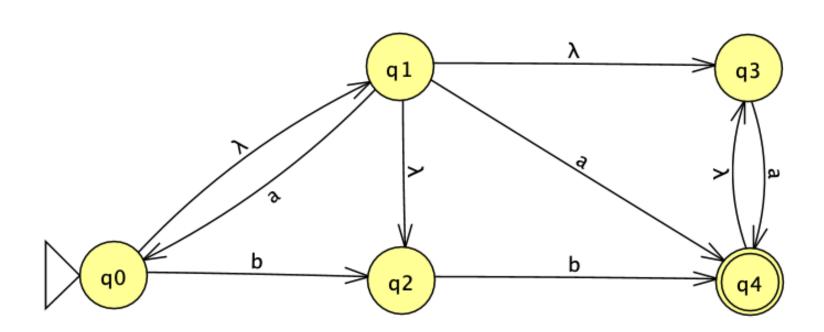
## Subset Construction Algorithm

Extra Example

## Apply subset construction algorithm to convert the following NFA machine to an equivalent DFA machine.



## Solution

State		State reachable by	
Subset	Label	а	b
$\{q_0, q_1, q_2, q_3\}$	Α	$\{q_0,q_1,q_2,q_3,q_4\}$	$\{q_2, q_3, q_4\}$
$\{q_0, q_1, q_2, q_3, q_4\}$	В	$\{q_0, q_1, q_2, q_3, q_4\}$	$\{q_2, q_3, q_4\}$
$\{q_2, q_3, q_4\}$	С	$\{q_3, q_4\}$	$\{q_3,q_4\}$
$\{q_3, q_4\}$	D	$\{q_3, q_4\}$	Ø
Ø	Е	Ø	Ø

## Solution

