

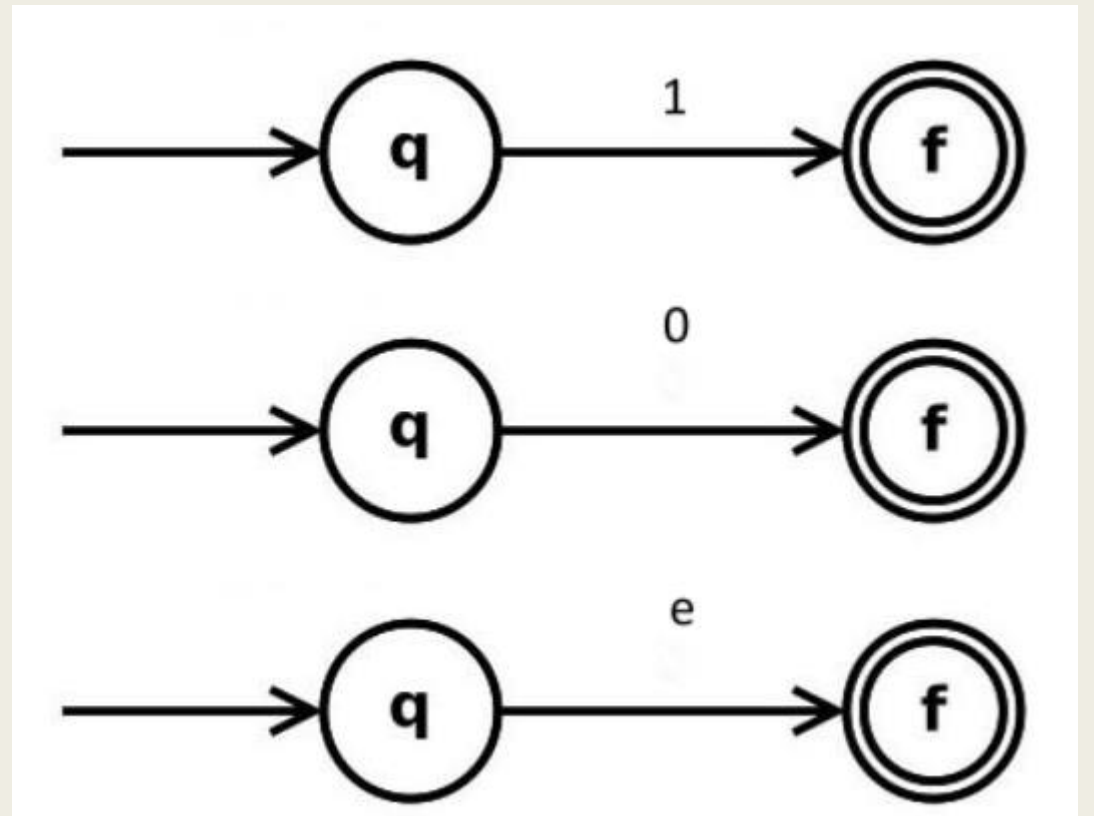


THOMPSON'S CONSTRUCTION

Task 3

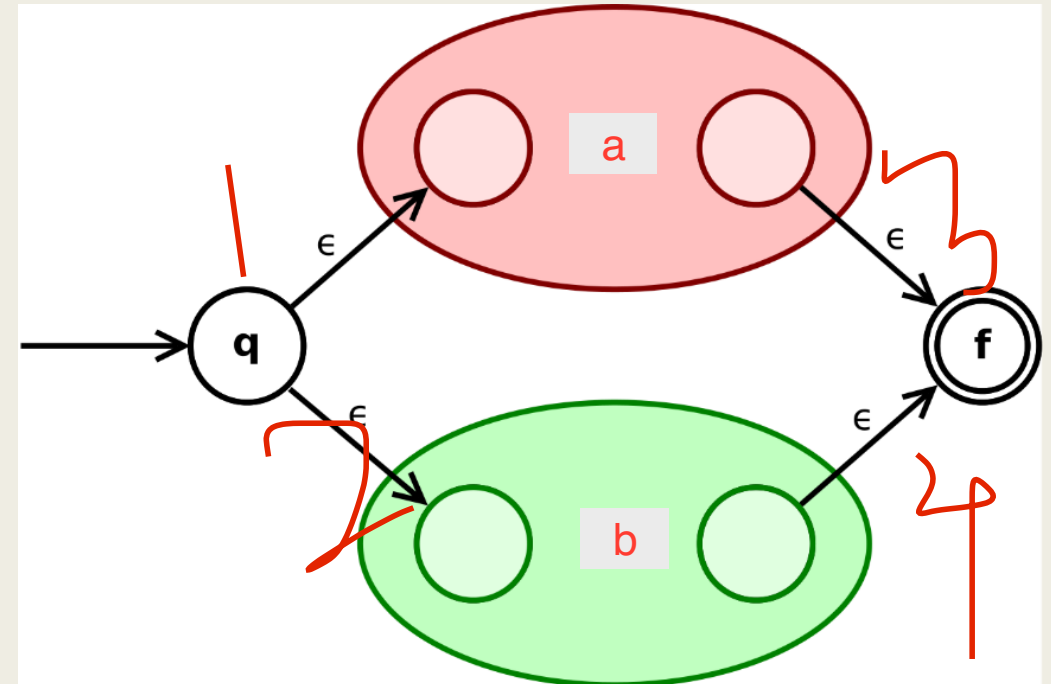
Thompson's Rules:

- A symbol $\{ 0, 1, e \}$ is converted to:



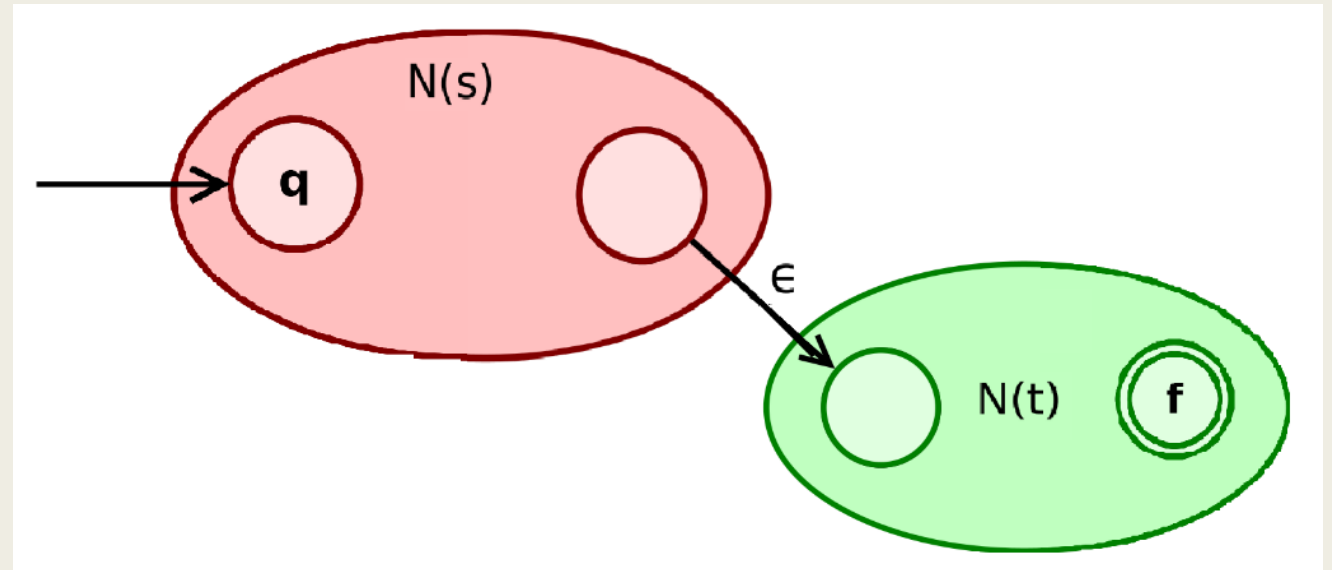
Thompson's Rules:

- The union expression $s \mid t$ is converted to:



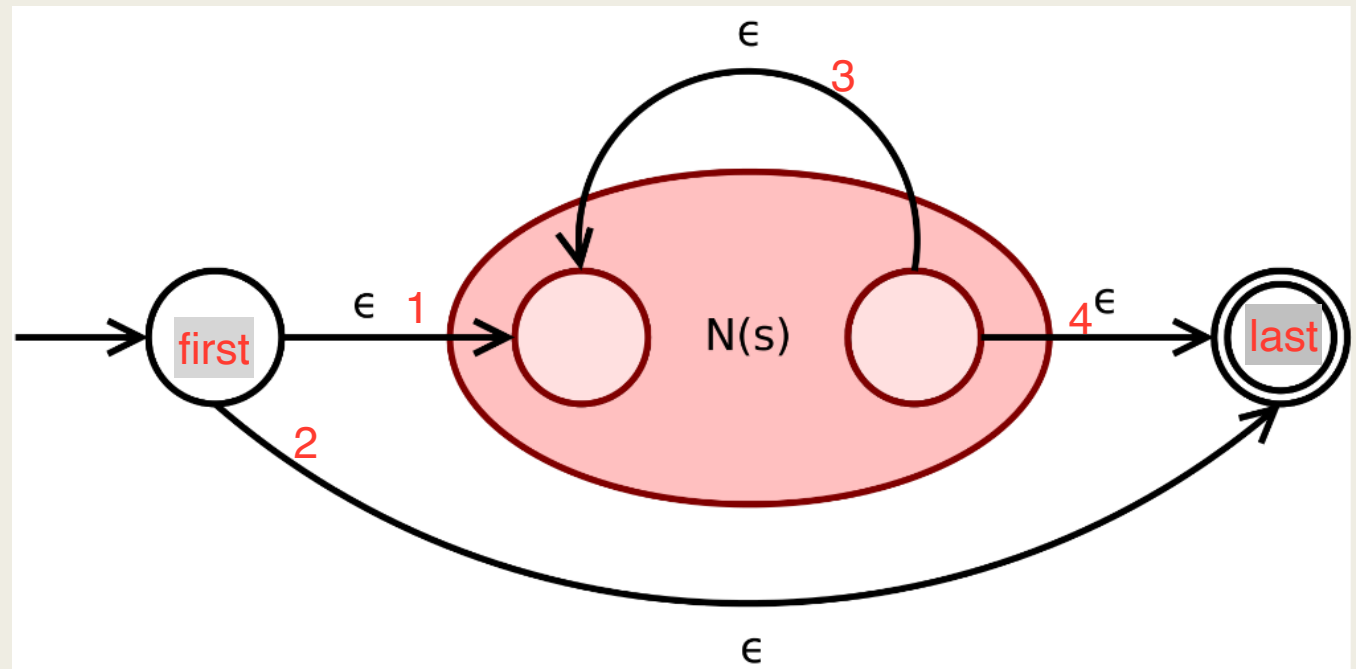
Thompson's Rules:

- The concatenation expression $s.t$ is converted to:

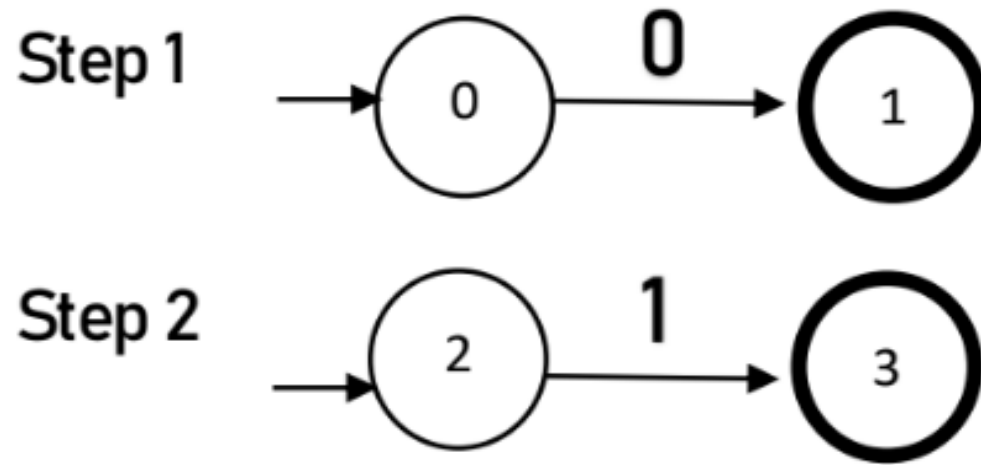


Thompson's Rules:

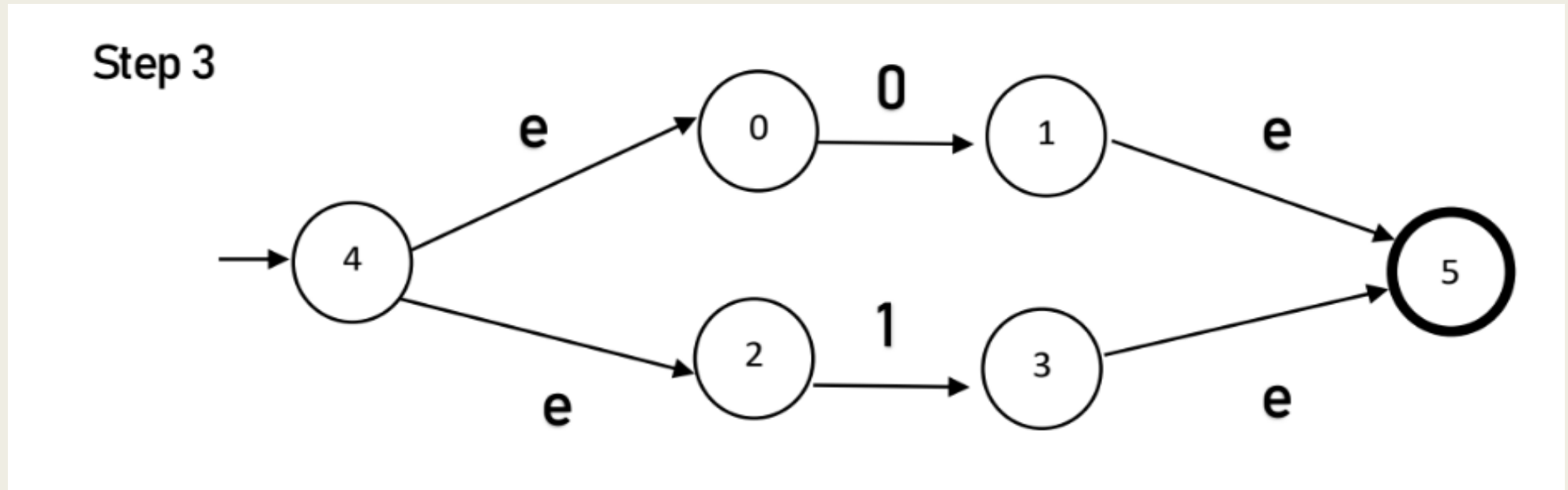
- The Kleene star expression s^* is converted to:



Example: “01|”



Example: “01|”



Example: “01|”

- Output: **6#4#5#0,1#2,3#1,5;3,5;4,0;4,2**
 - *Make sure you keep track the states number*
 - *The output NFA should have the same number of states.*