



Automata Formal Languages & Logic

Preet Kanwal

Department of Computer Science & Engineering

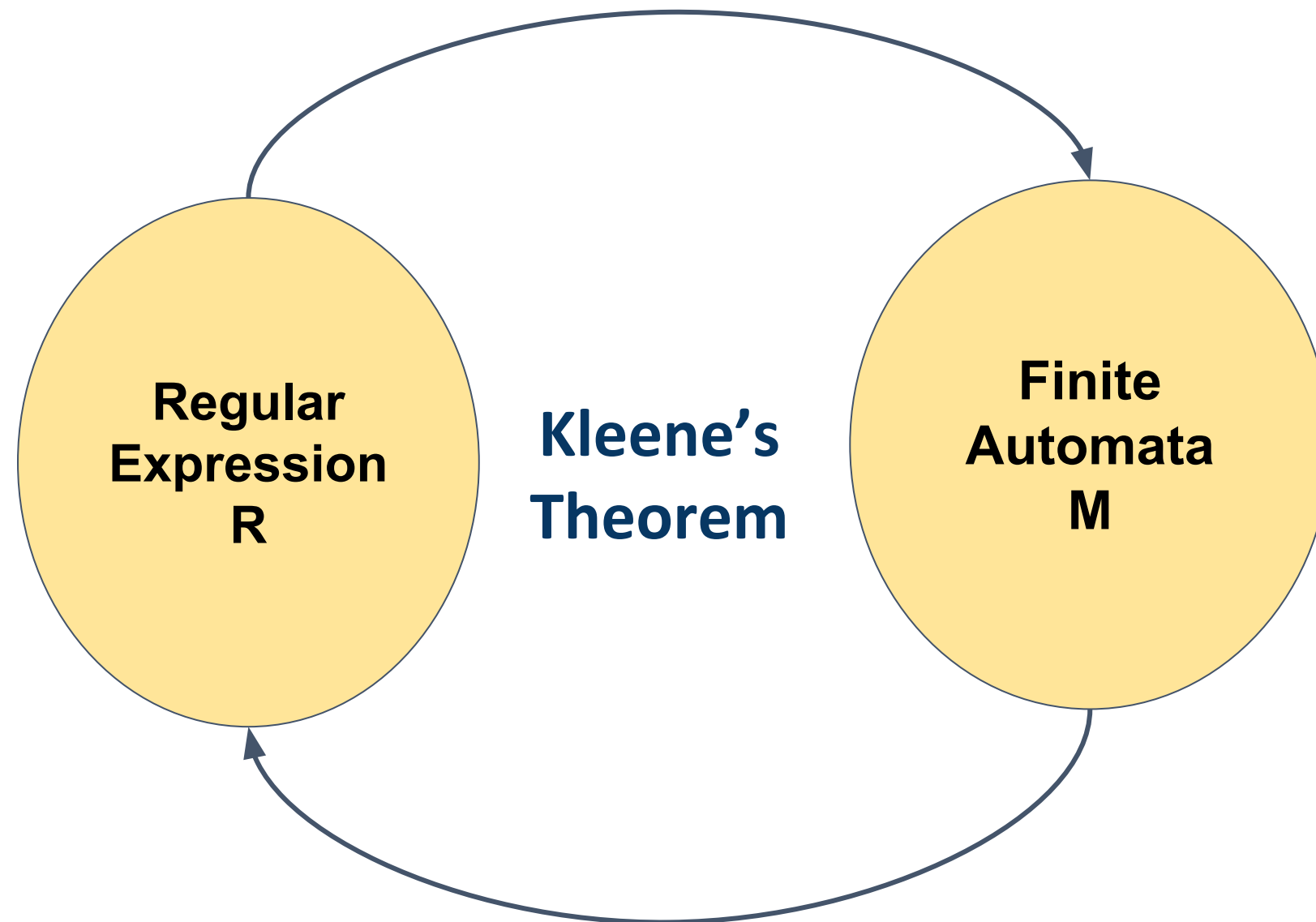
Automata Formal Languages & Logic

Unit 2

Preet Kanwal

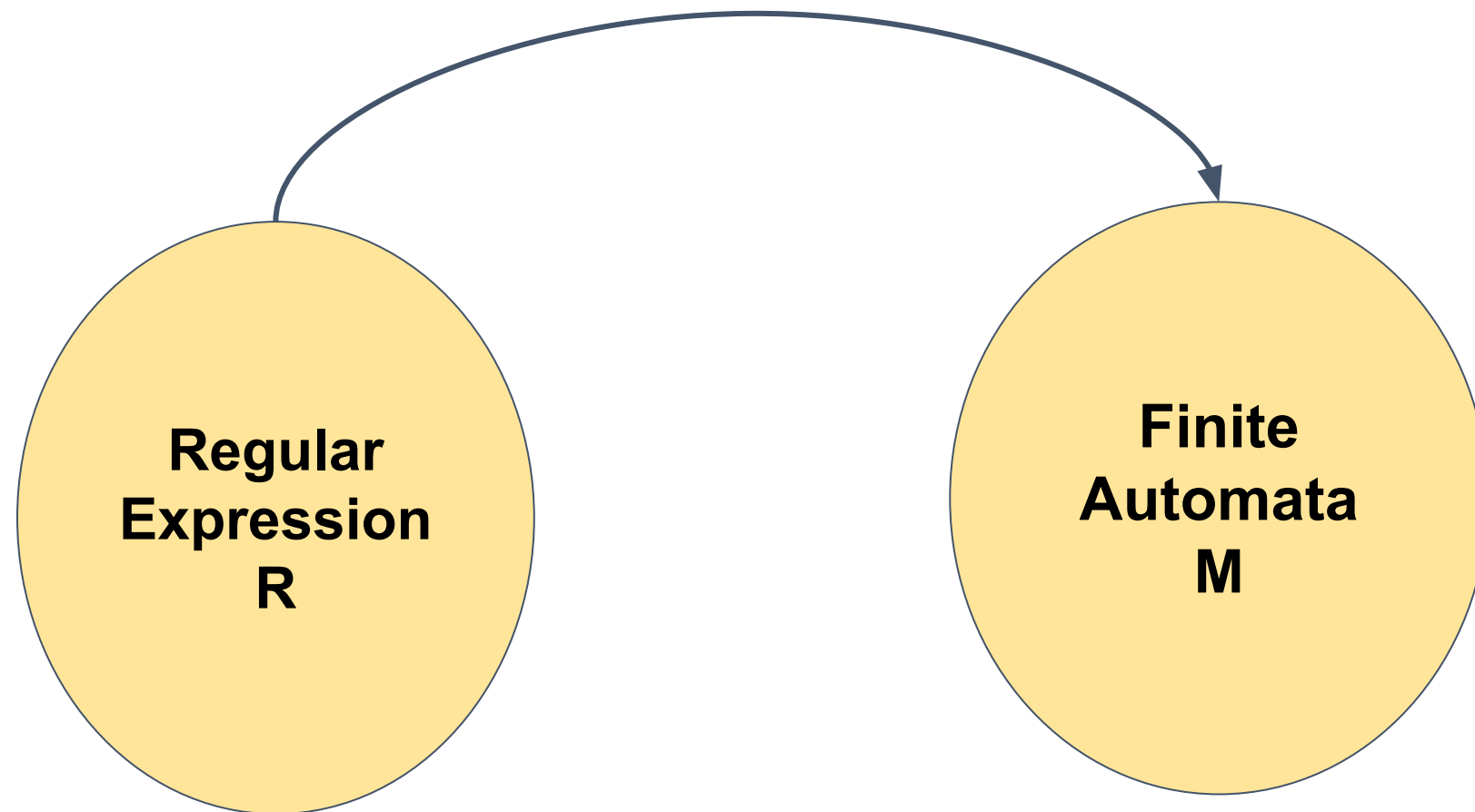
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Thompson's Construction Algorithm

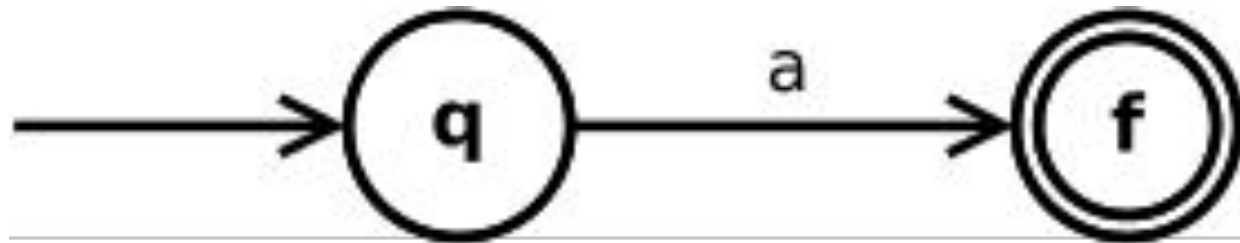
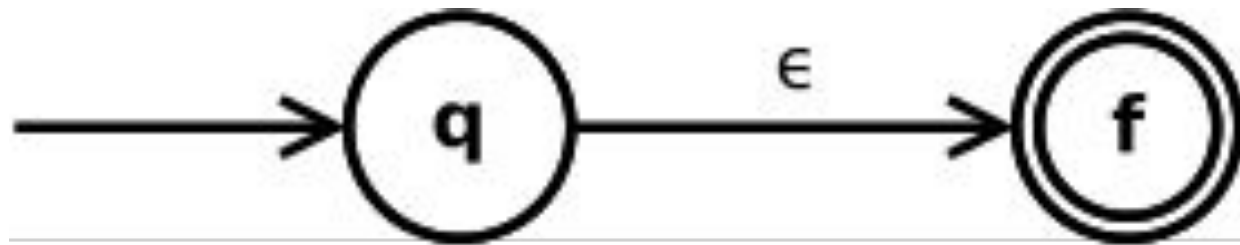


State Elimination Algorithm

Thompson's Construction Algorithm

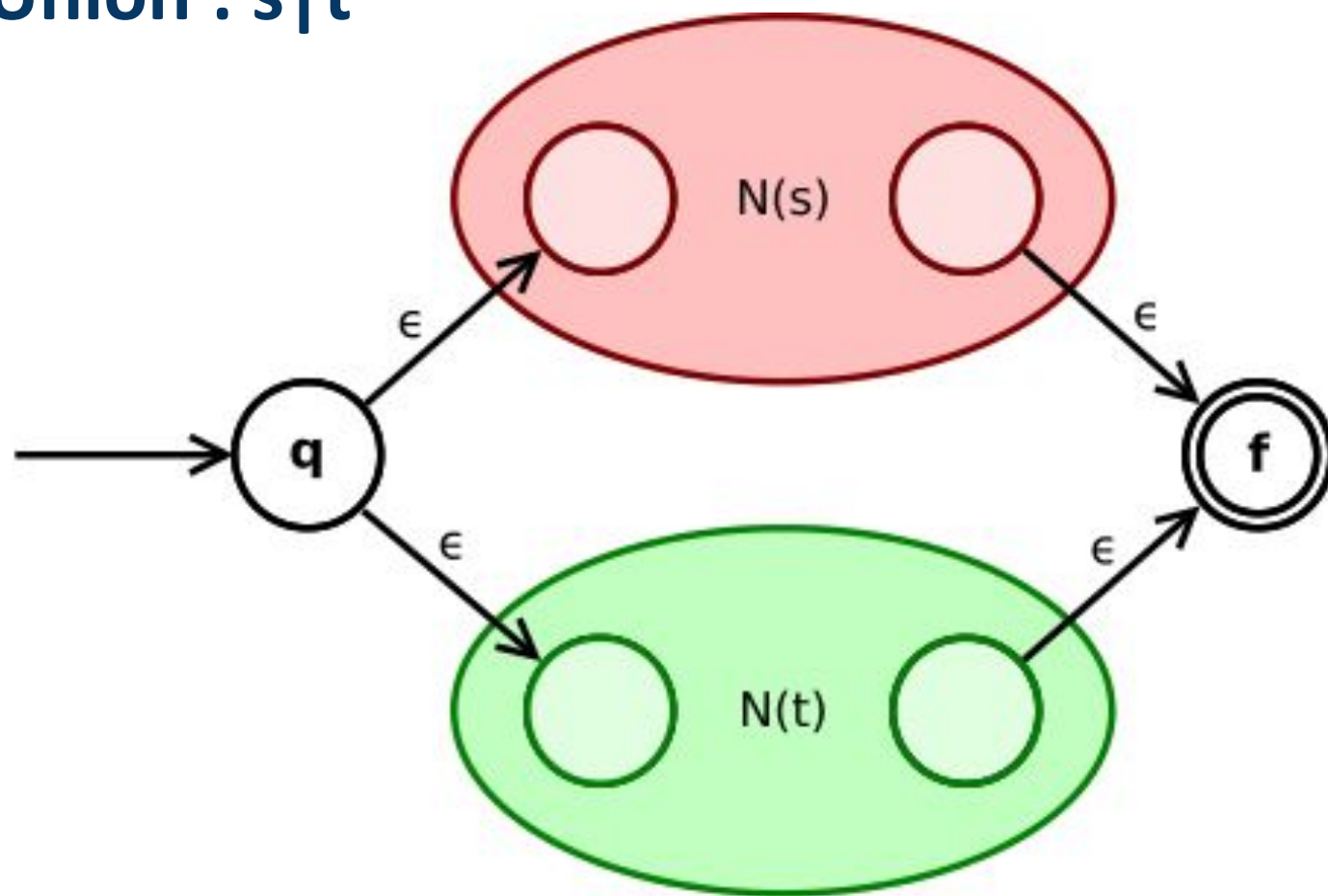


Thompson's Construction Algorithm



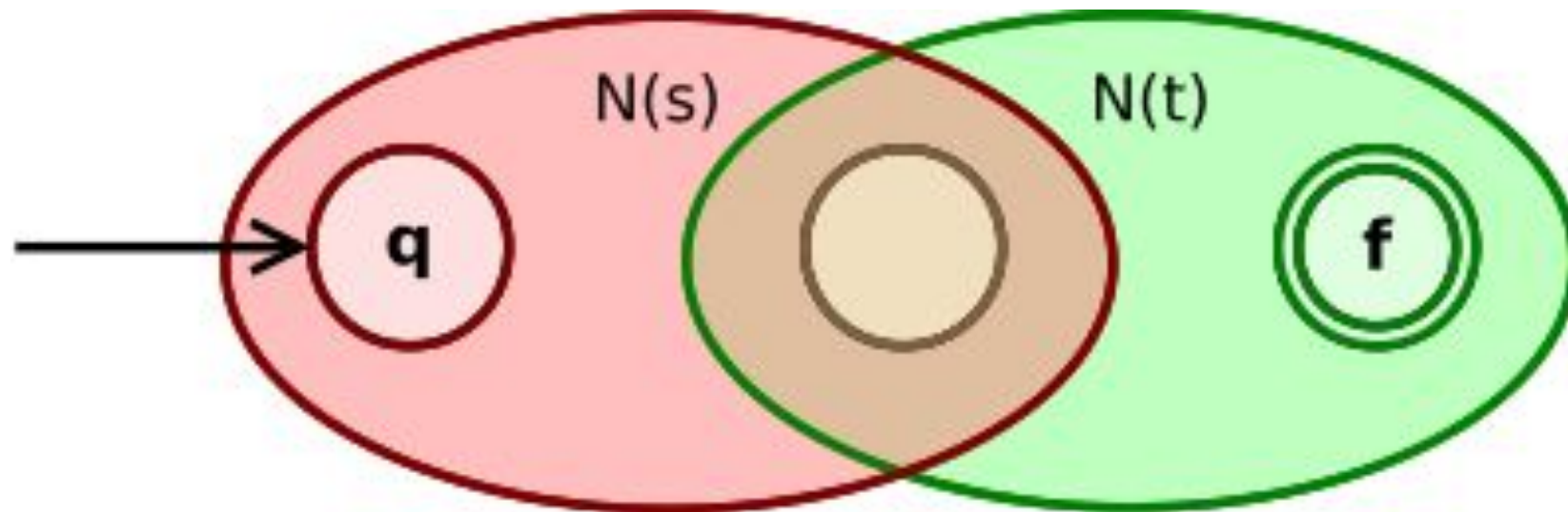
Thompson's Construction Algorithm

Union : $s|t$



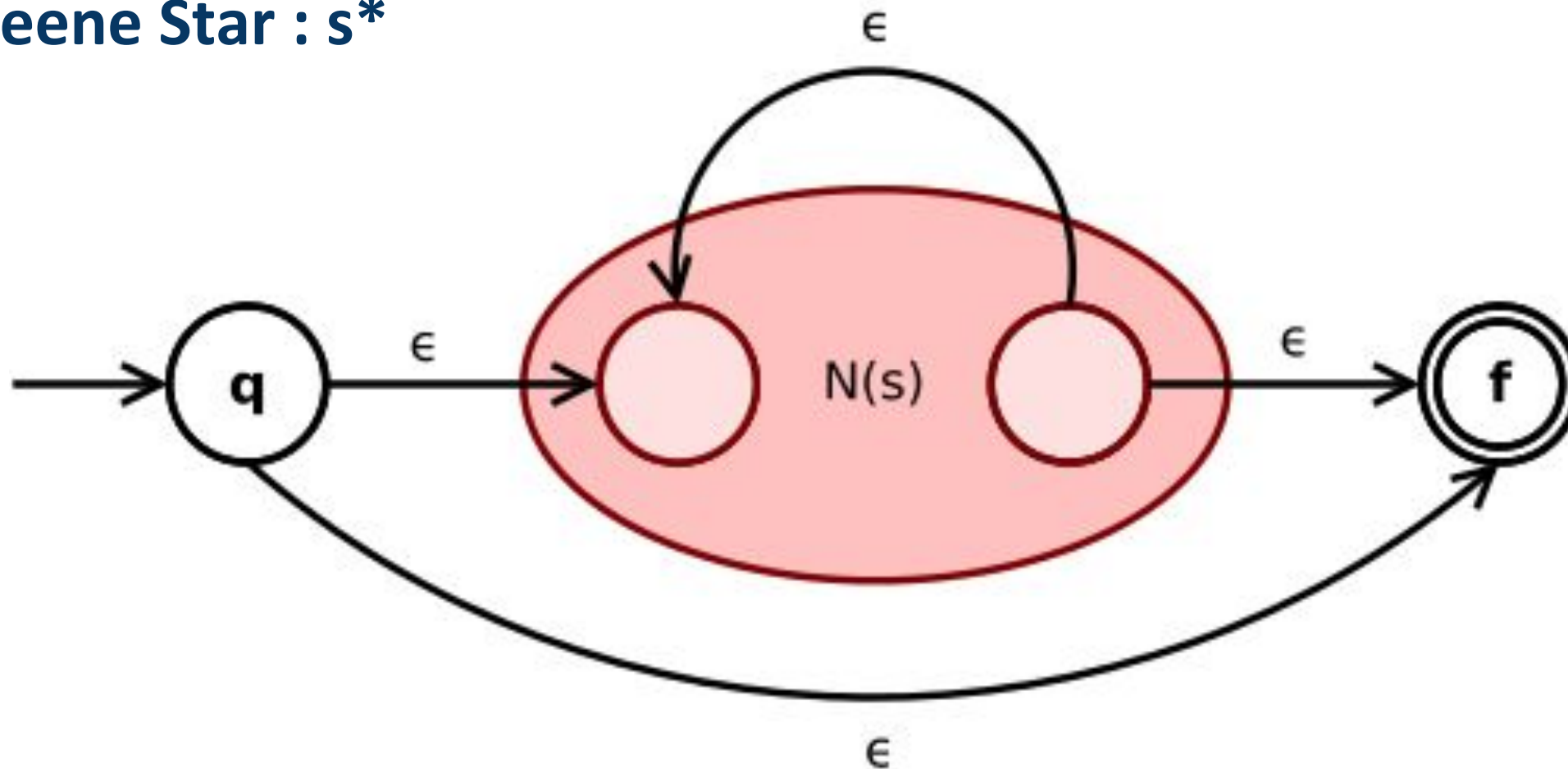
Thompson's Construction Algorithm

Concatenation : $s.t$



Thompson's Construction Algorithm

Kleene Star : s^*

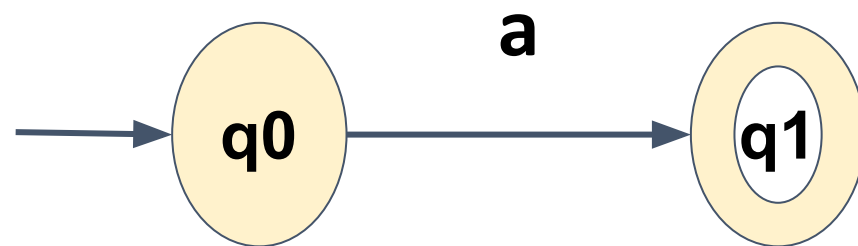


Construct Finite Automata for the following Regex :

$(ab+c)^*$

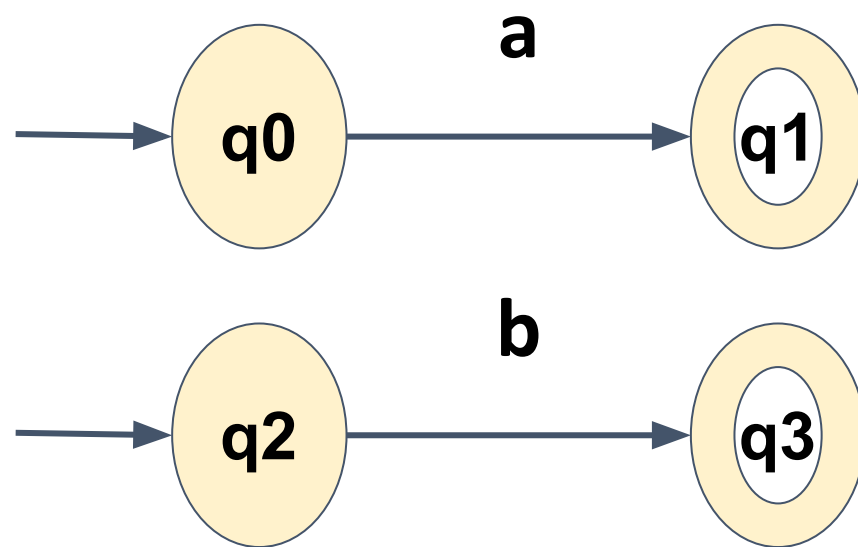
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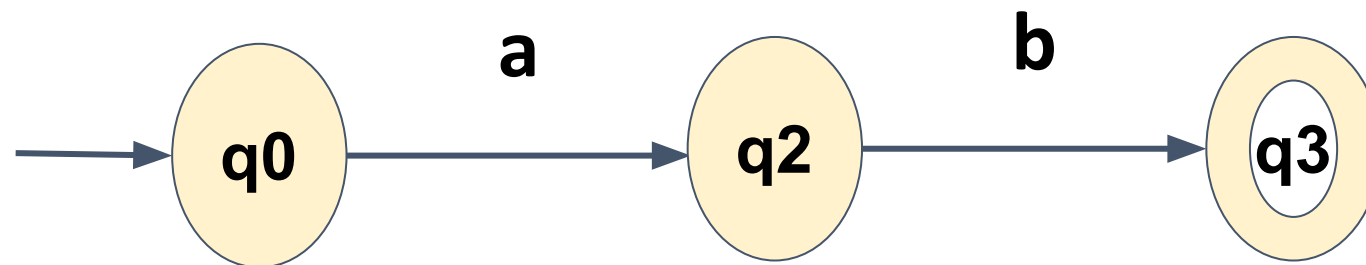
Construct Finite Automata for the following Regex :

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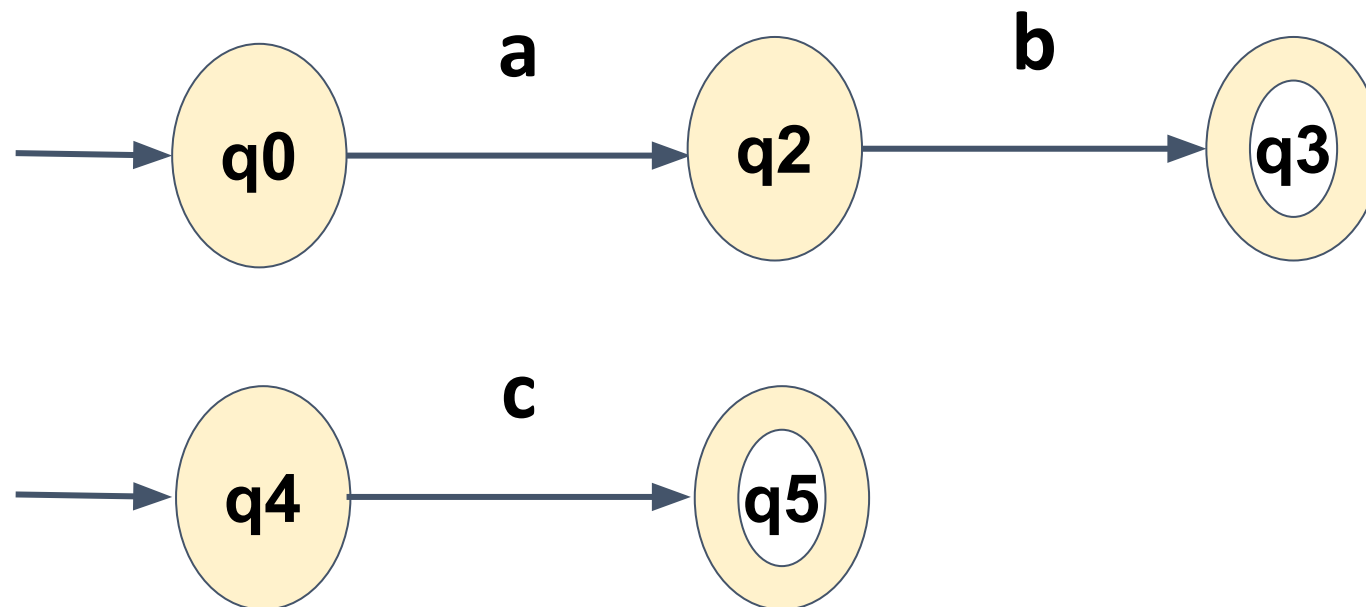
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$(ab+c)^*$



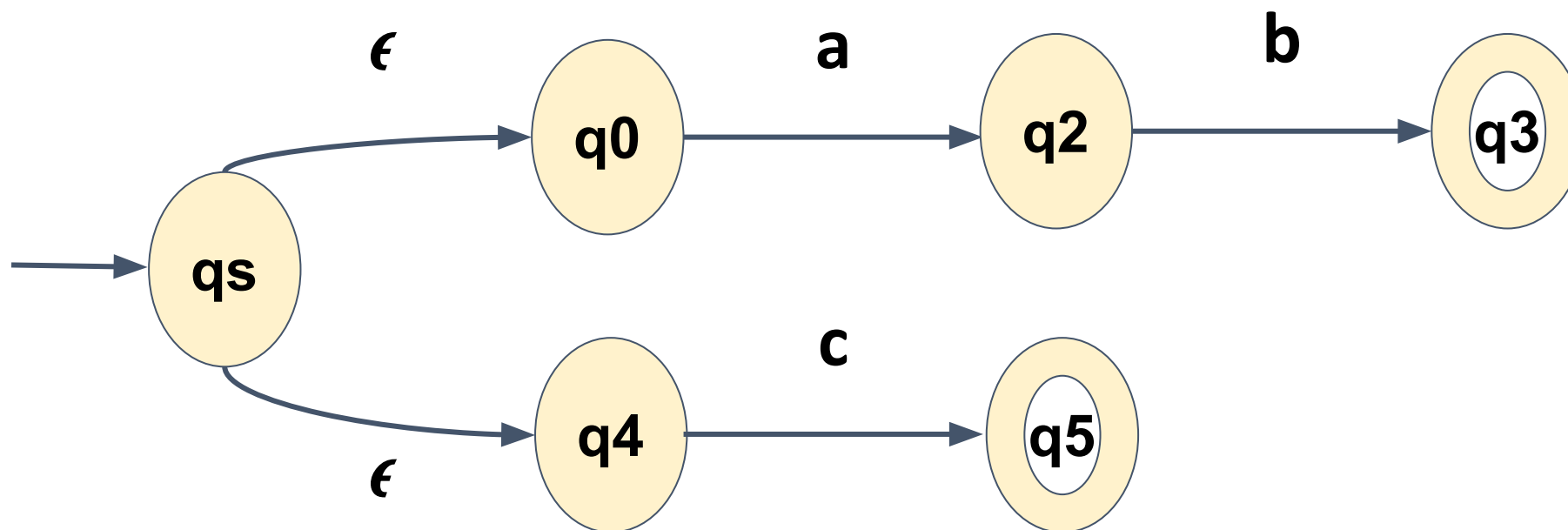
Construct Finite Automata for the following Regex :

$(ab+c)^*$



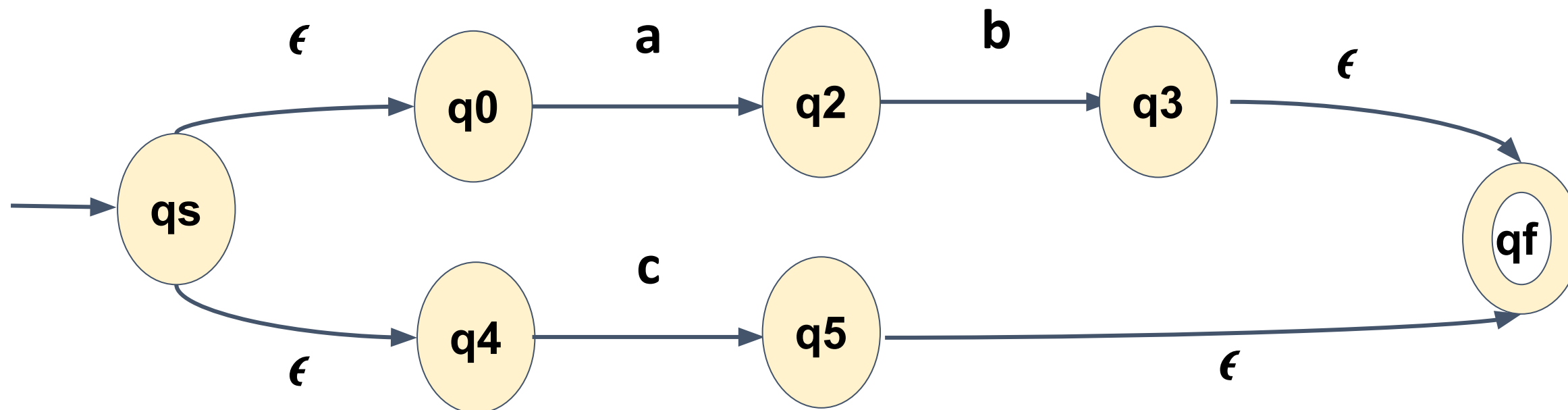
Construct Finite Automata for the following Regex :

$(ab+c)^*$

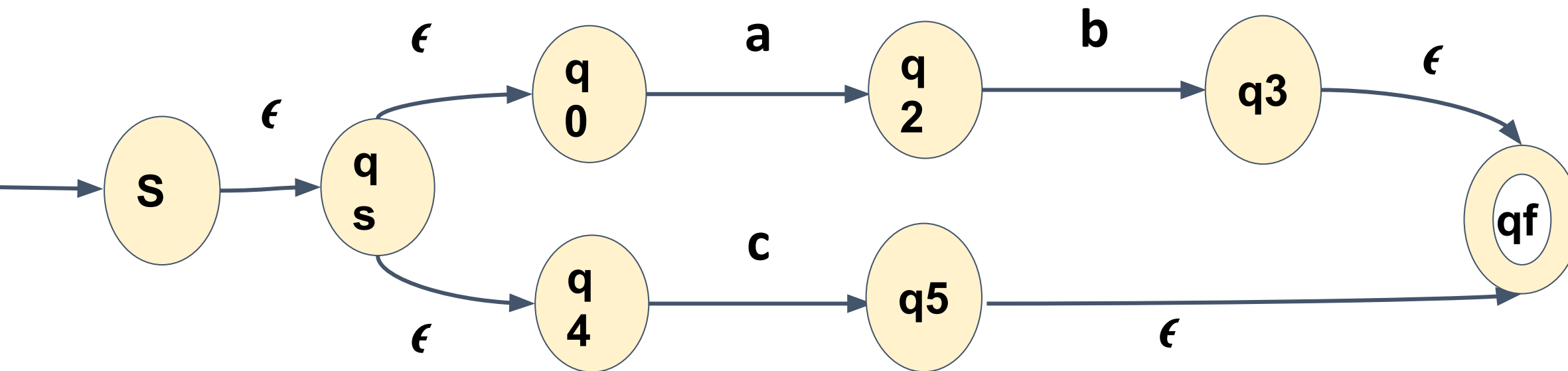


Construct Finite Automata for the following Regex :

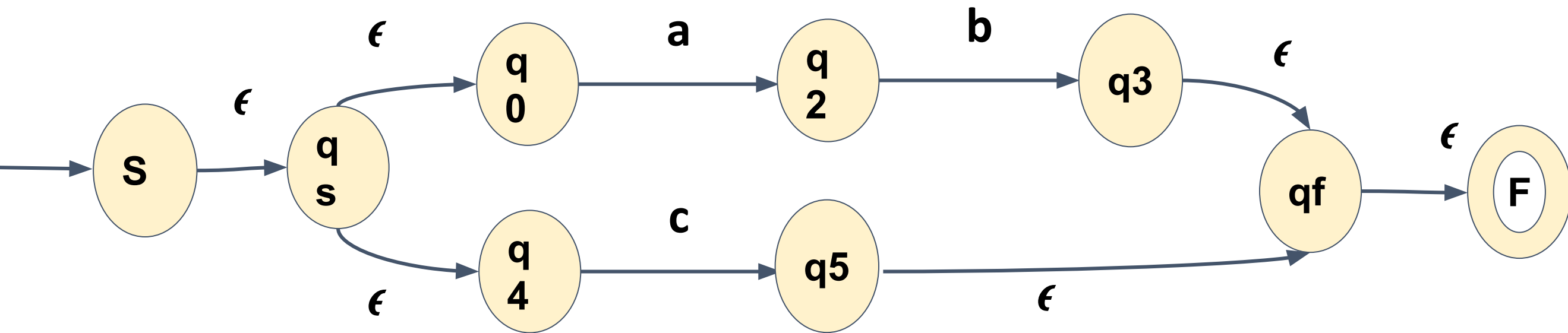
$(ab+c)^*$



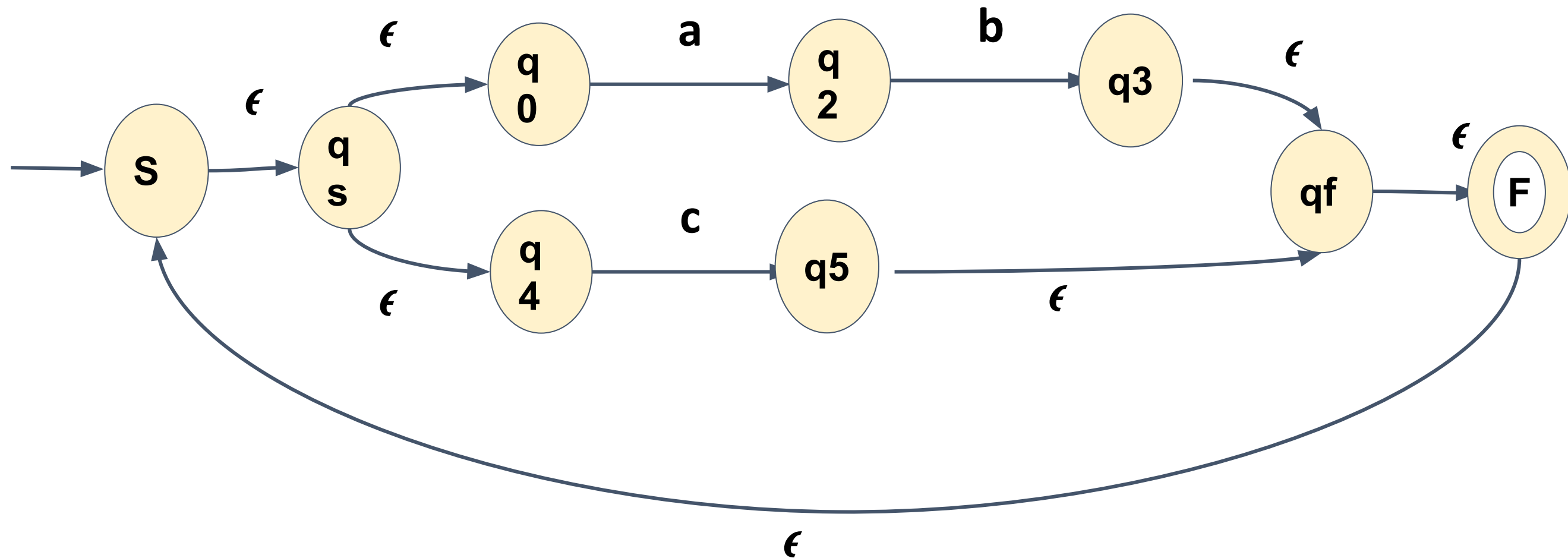
$(ab+c)^*$



$(ab+c)^*$



$(ab+c)^*$

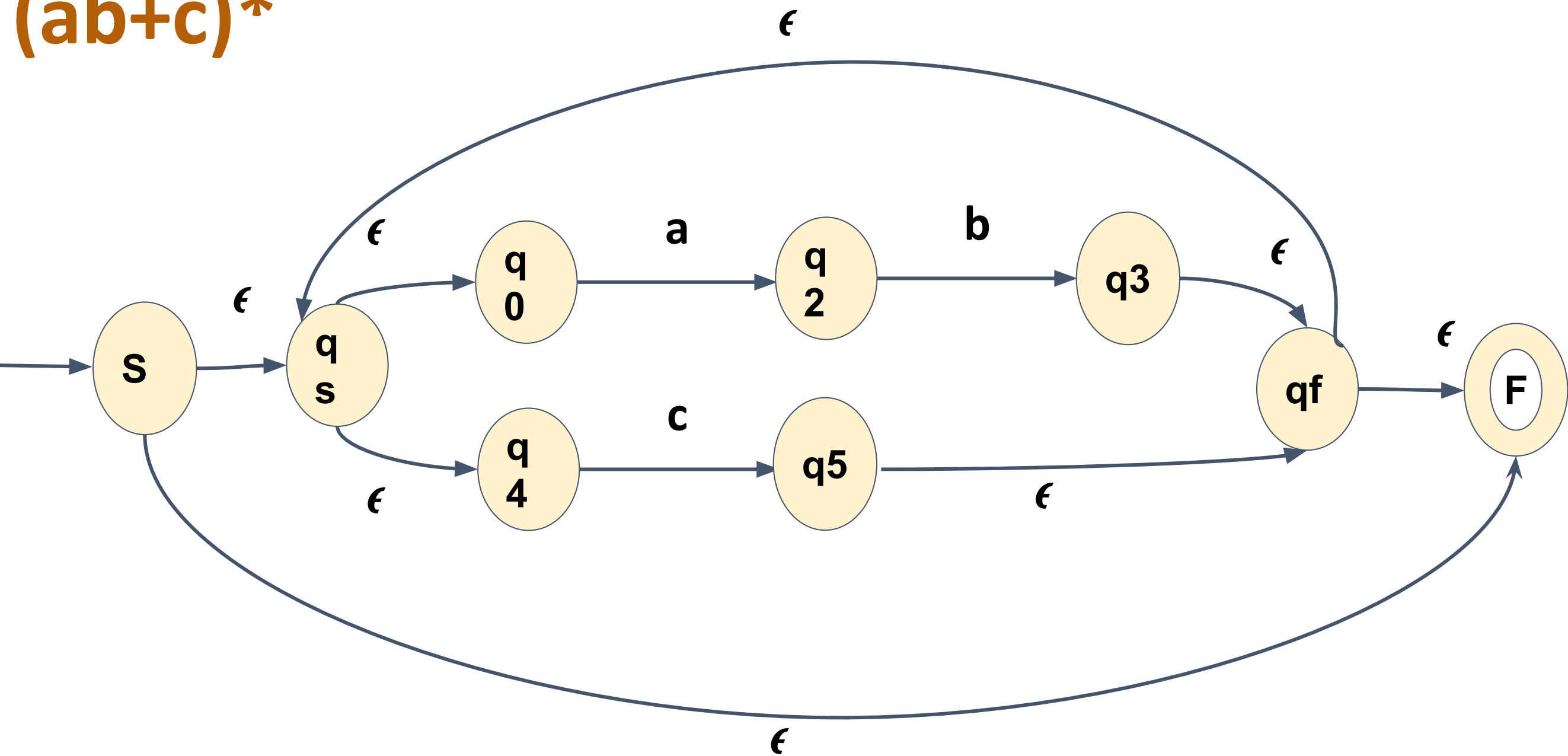


Automata Formal Languages and Logic

Unit 2 - Regular Expression to Finite Automata



$(ab+c)^*$



Automata Formal Languages and Logic

Unit 2 - Regular Expression to Finite Automata



Construct Finite Automata for given Regex



THANK YOU

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