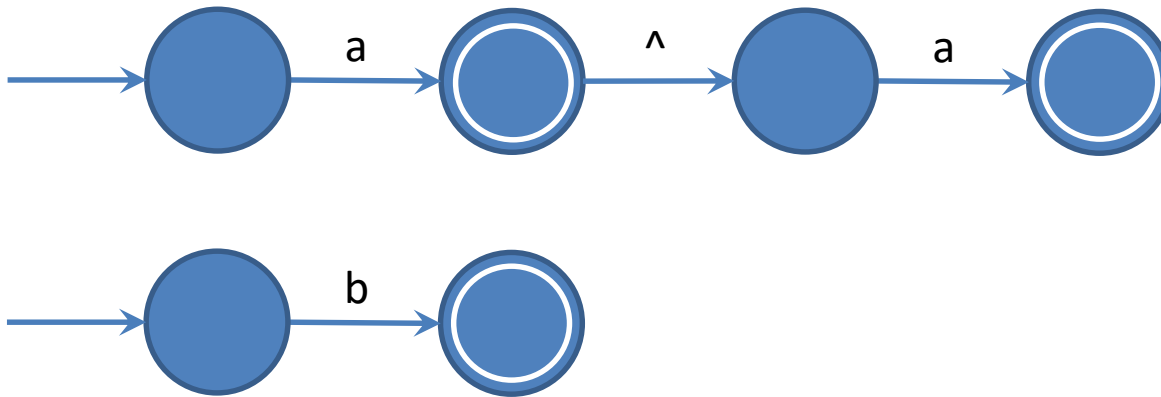


Application of Kleene's Theorem: Thompson Construction Method

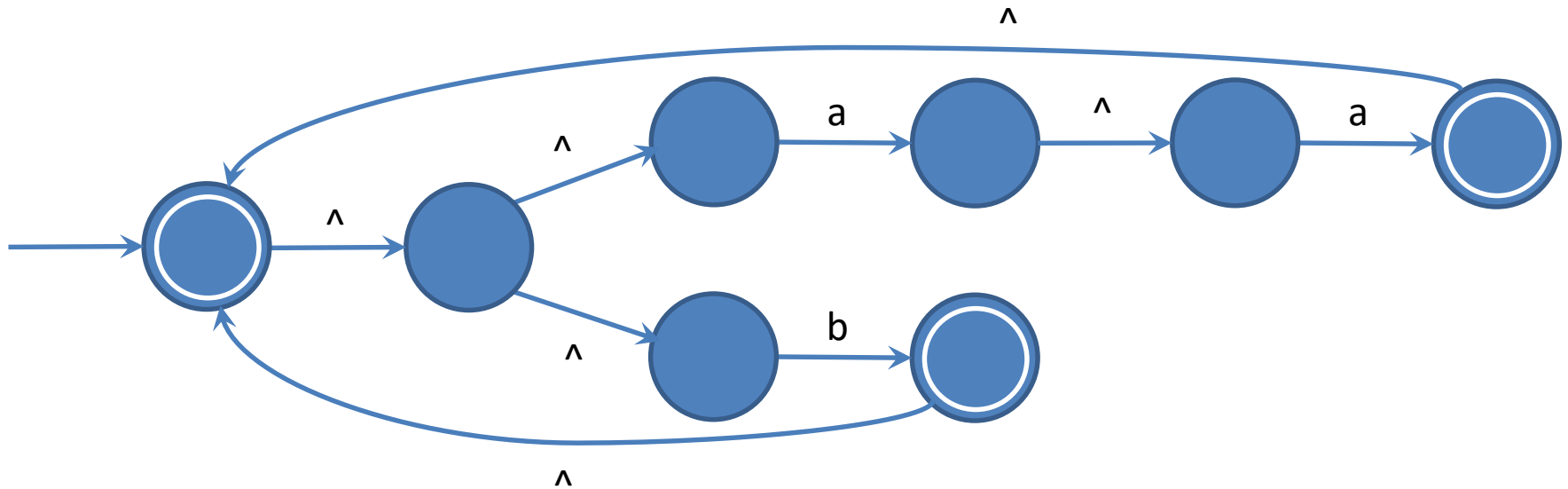
Regular expression to NFA- \wedge

- Convert $(aa + b)^*$ to NFA- \wedge



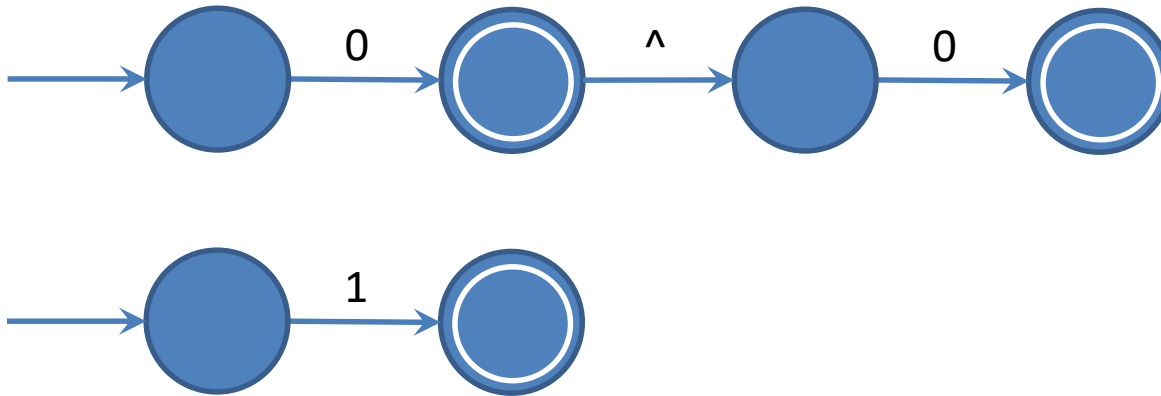
Regular expression to NFA- \wedge

- Convert $(aa + b)^*$ to NFA- \wedge



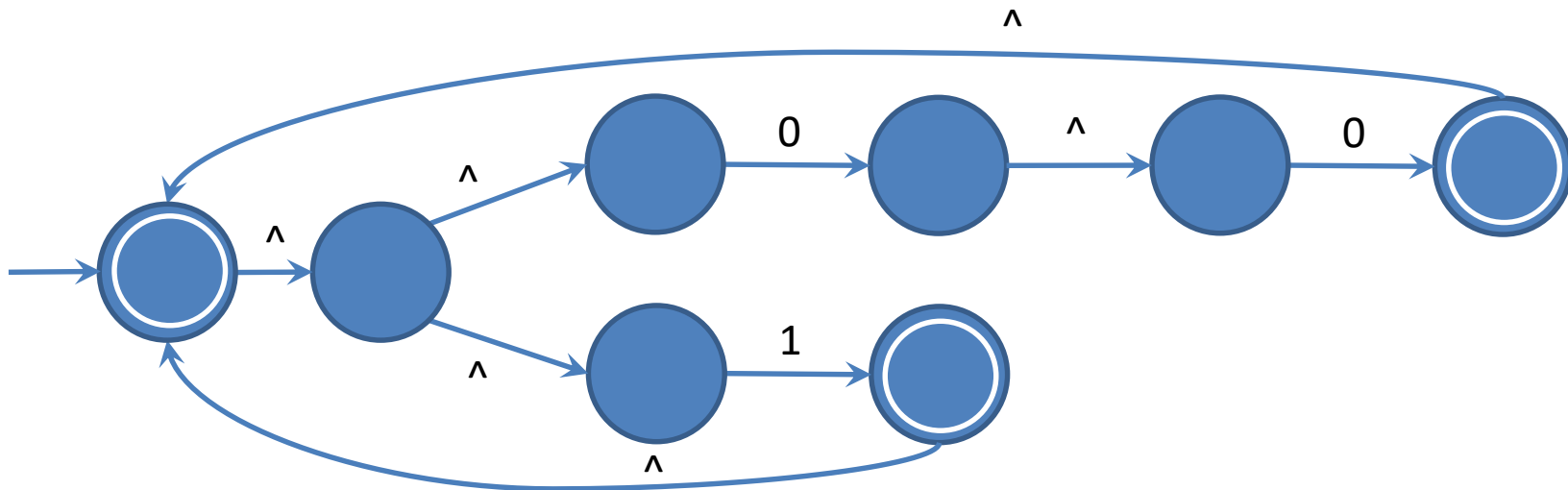
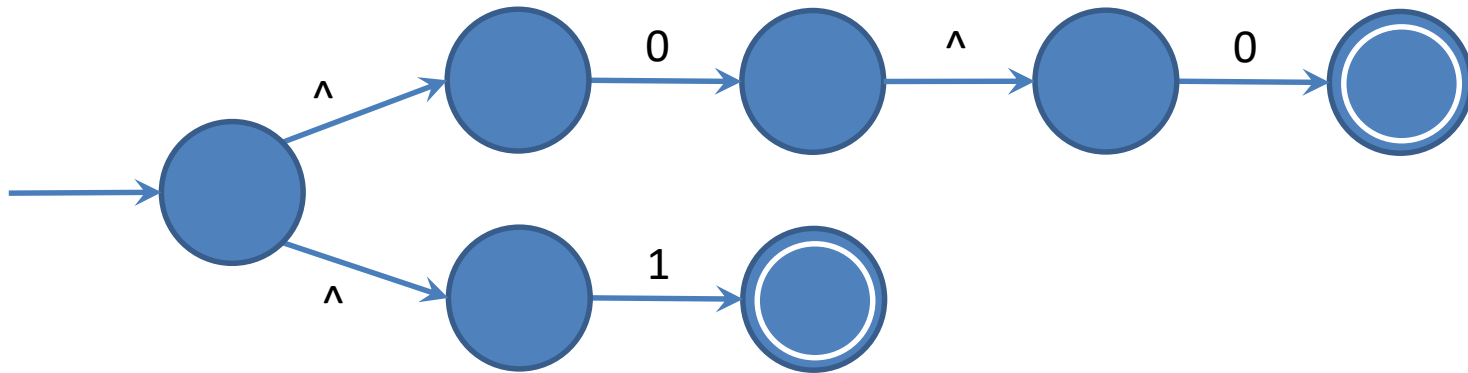
Regular expression to NFA- \wedge

- Convert $(00 + 1)^*(10)^*$ to NFA- \wedge



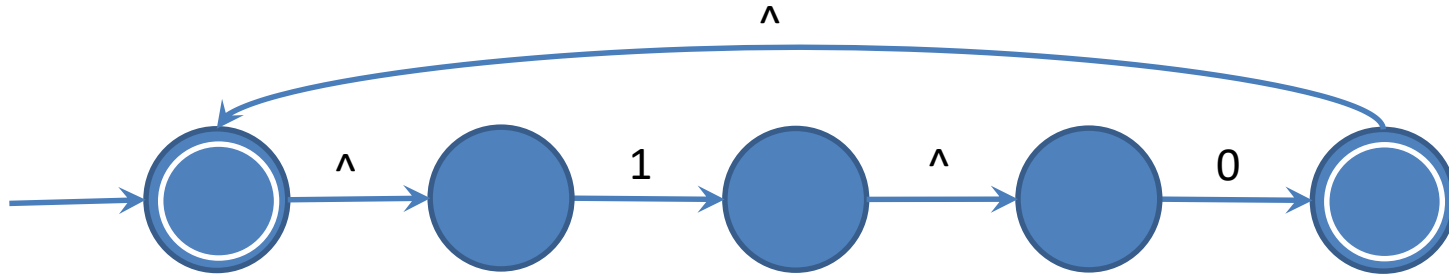
Regular expression to NFA- \wedge

- Convert $(00 + 1)^*(10)^*$ to NFA- \wedge



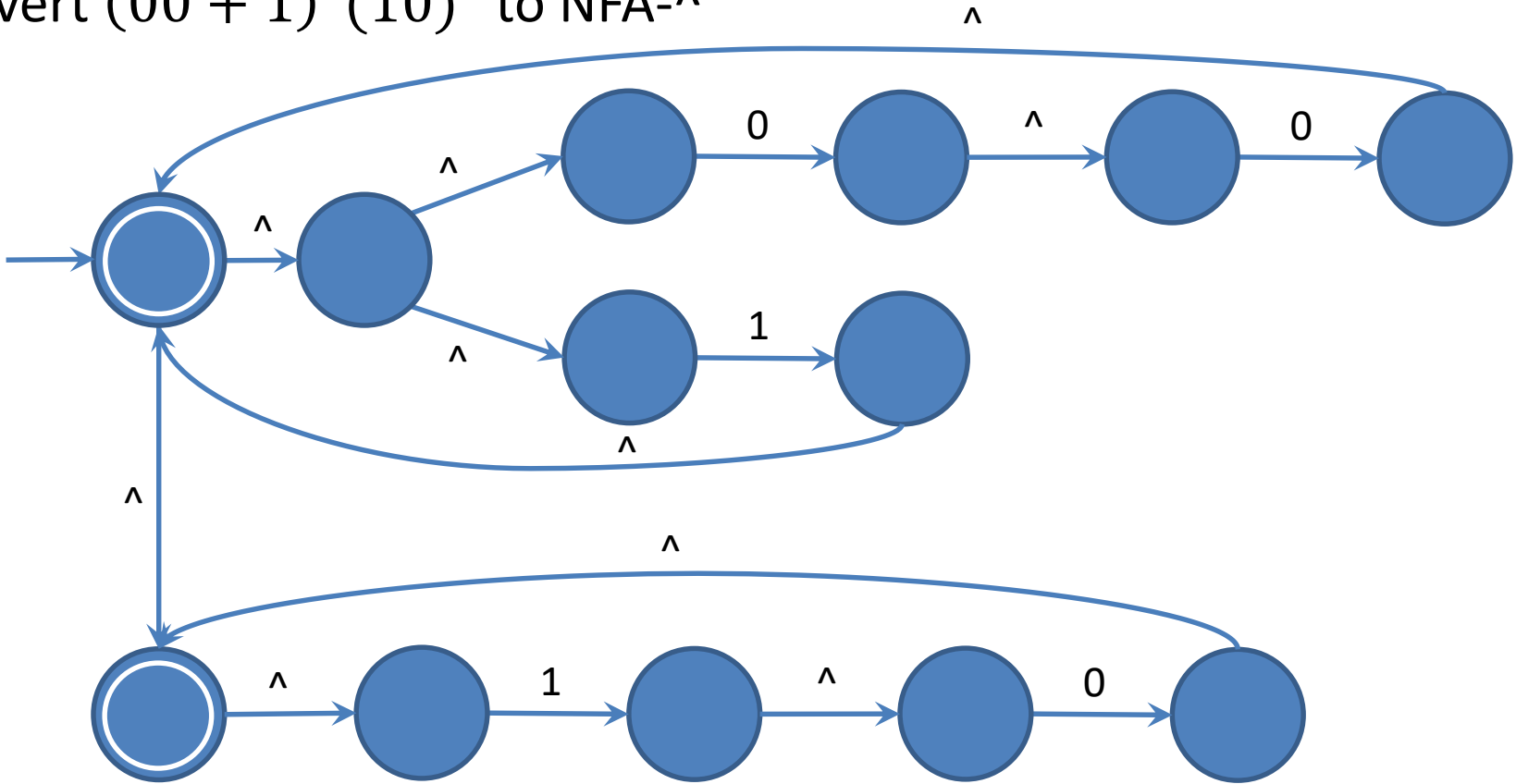
Regular expression to NFA- \wedge

- Convert $(00 + 1)^*(10)^*$ to NFA- \wedge



Regular expression to NFA- \wedge

- Convert $(00 + 1)^*(10)^*$ to NFA- \wedge



Exercise (RE to NFA-^)

1. 00
2. $00+1$
3. $(00+1)^*$
4. $(0+1)^*$
5. $(111)^*$
6. $(10+01)^*$
7. $(0+1)^*(11+00)^*11$
8. $(10+110)^*(0+1)^*1$
9. $(00+1)^*(10)^*$
10. $(a+b)(a+b)^*$
11. $(aab)^*b^*(a+b)^*$