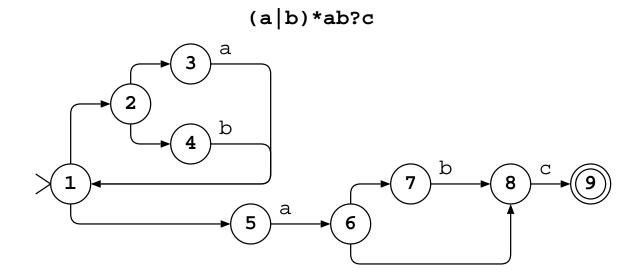
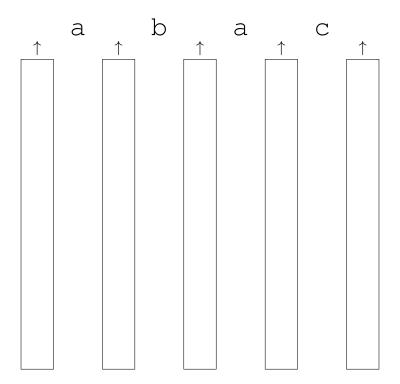
## **Computer Mathematics**

Week 13 Examples

1. Match the string "abac" using the following non-determinstic finite state machine.

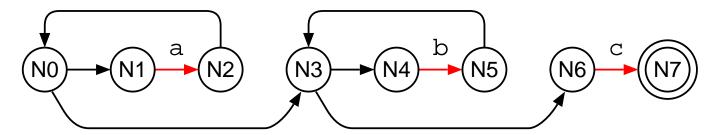


Input symbol sequence:



allowable states

**2.** Use the subset construction to convert the following NFA into an equivalent DFA.



DFA transition table:

D
a
b
c
DFA:

1
2
3

**3.** Invent three more NFAs (or re-use some of the NFAs from last week's examples). Convert each NFA into an equivalent DFA.