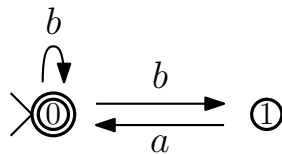


## COSC 341 – Tutorial 5

- Design a DFA on the alphabet  $\{a, b\}$  that accepts:
  - the language of all words not containing the substring  $bbb$
  - the language of all words with exactly two  $a$ 's and three  $b$ 's
  - the language of all words with exactly two  $a$ 's or exactly three  $b$ 's
- Design an NFA on the alphabet  $\{a, b\}$  that accepts the language of words that end with  $b$ . Construct a DFA that is equivalent to this NFA.

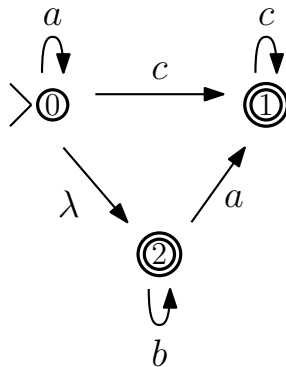
### Homework

- Let  $M$  be following NFA on the alphabet  $\{a, b\}$ :



Construct a DFA that is equivalent to  $M$ .

- Let  $M$  be following NFA on the alphabet  $\{a, b, c\}$ :



Construct a DFA that is equivalent to  $M$ .