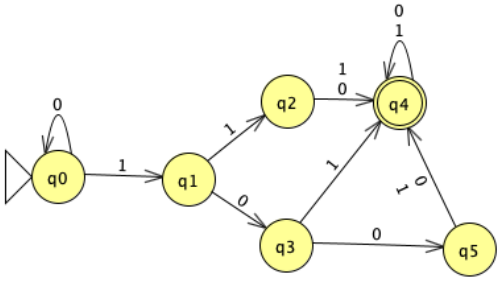
NFAs worksheet
CS51 - Fall 2026

Problem 1

Assuming we work on 0s and 1s that are interpreted as bits, what does the following DFA do?



Problem 2

Can you create a DFA that determines if a number is odd?

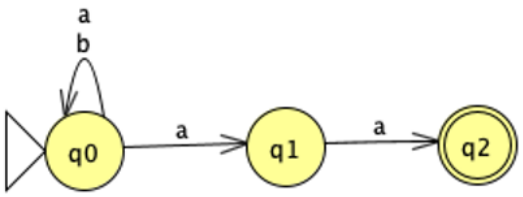
1. aaaaa
2. ababaa
3. ababa

Problem 3

Consider the following NFA.

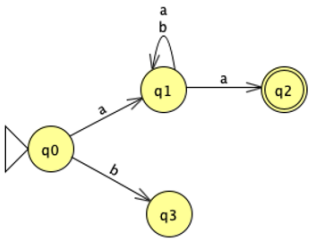
Which of the following strings does it accept?

1. aaaaa
2. ababaa
3. ababa

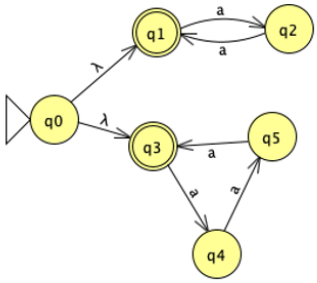


Problem 4

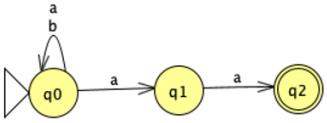
For each NFA below, what language does it describe? Can you come up with a regular expression that describes it?



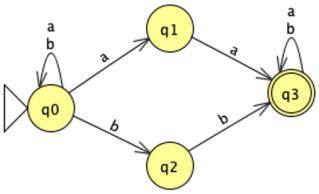
(a)



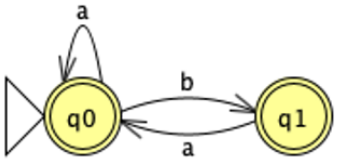
(b)



(c)



(d)



(e)