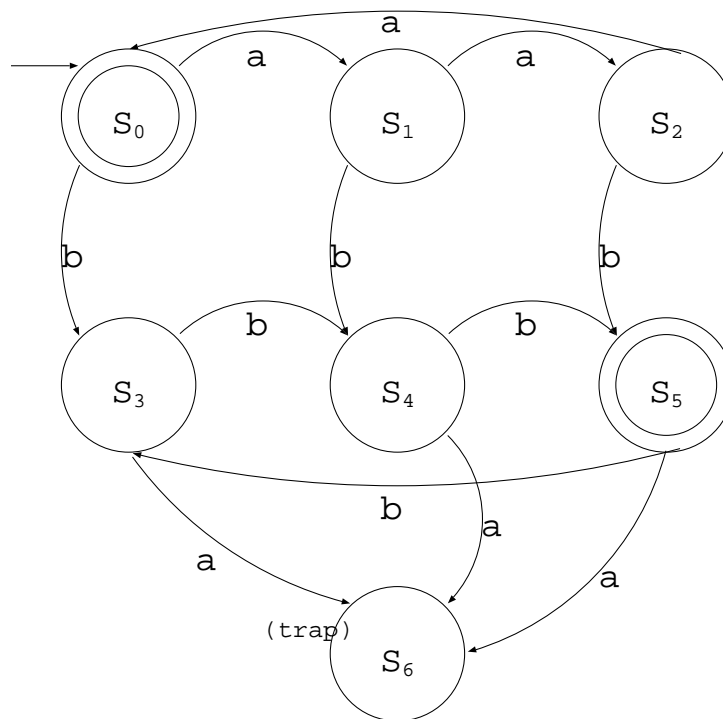


COM S 331
Homework 2

Christian Shinkle

September 8, 2017

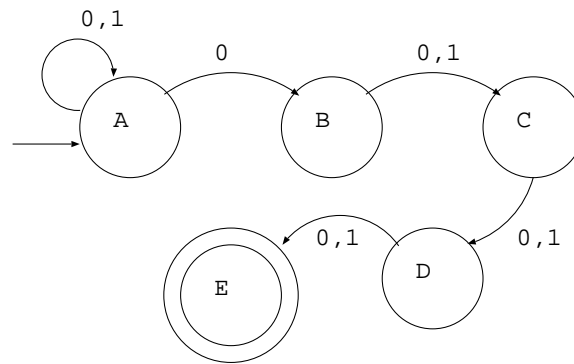
1. DFA:



2. In plain English, any binary string that's at least 4 bits long and has a 0 for the fourth to last bit. The regular expression for it is:

$$(0+1)^*0(0+1)(0+1)(0+1)$$

The NFA that defines this DFA is:



3. This is a DFA:

