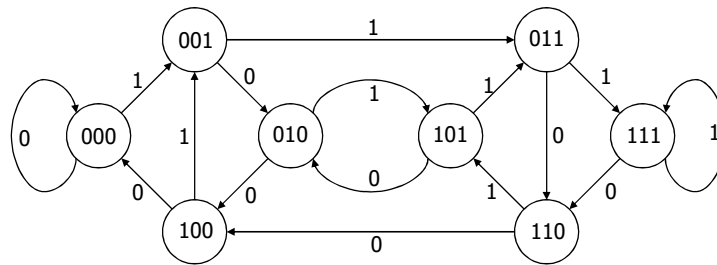
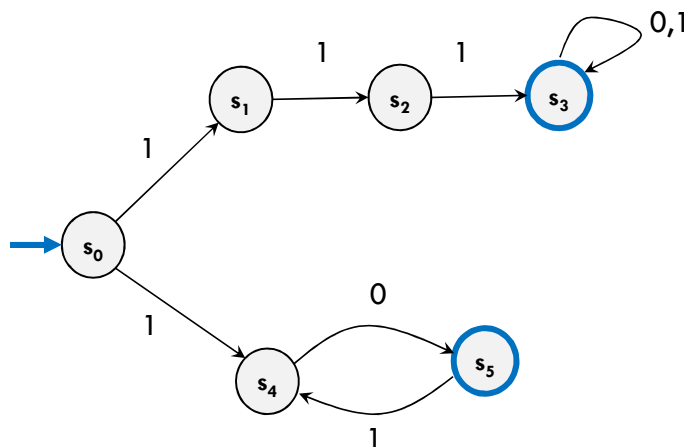


3 bit shift register “Remember the last three bits”



NFA practice

What is the language of this NFA?



NFA that recognizes “binary strings with a 1 in the third position from the end”

“**Perfect Guesser**”: The NFA has input x , and whenever there is a choice of what to do, it **magically** guesses a transition that will eventually lead to acceptance (if one exists)

Perfect guesser view makes this easier.

Design an NFA for the language in the title.

Regularity

So NFAs/DFAs what can and can't they do?

Can NFAs do more than DFAs?

How do they relate to context-free-grammars? Regular expressions?

i.e. is there a language L such that L is the language of an NFA but not a DFA? Or vice versa?

What about CFGs/regexes?

pollev.com/robbie