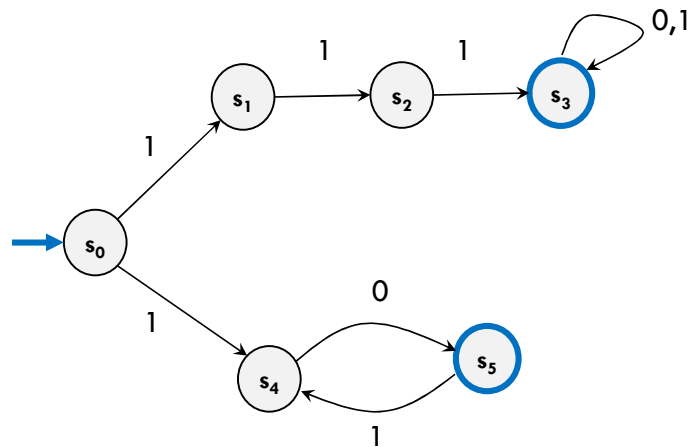


## NFA practice

What is the language of this NFA?



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## 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)

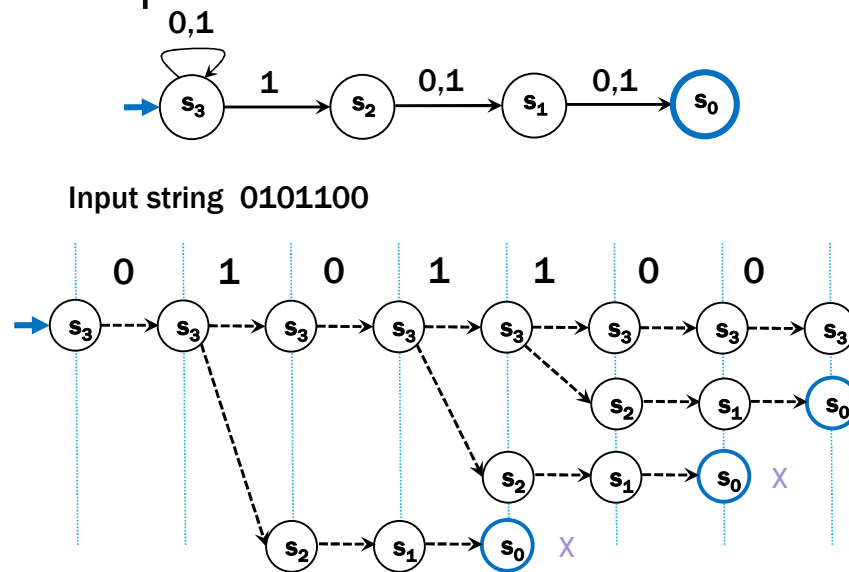
Perfect guesser view makes this easier.

Design an NFA for the language in the title.

Then, also design an NFA for "1 in the third position from the start"

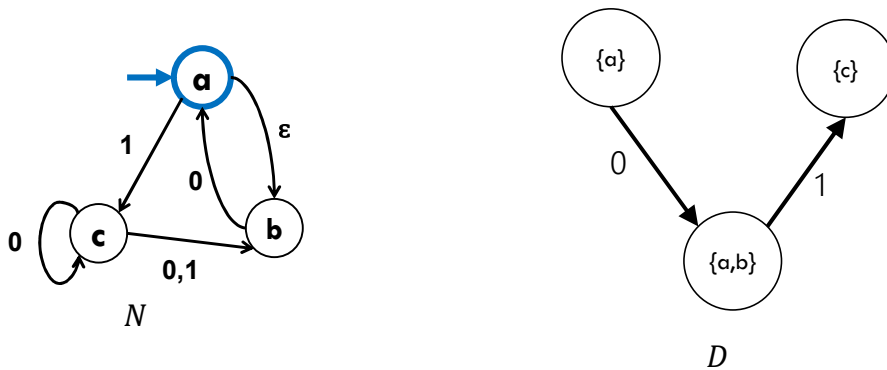
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## Parallel Exploration view of an NFA



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## An example (starting point)



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