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.

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Let P(A) be "There is an NFA whose language is the same as the language for A."

Inductive Hypothesis: Let A, B be arbitrary regular expressions. Suppose P(A) and P(B).

Inductive Step: Case AB



exactly strings matched by AB.

