

## REs to DFAs

Design a **single algorithm** than can convert the following three regular expressions into their equivalent DFA.

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2.  $(ax|aa^+x*a)^+$
3.  $(t^+q*|rqtq*|t^4q^4)$

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These are not complicated REs, certainly not as complicated as some of your LGA solutions! But contemplating an algorithm for **just these three examples** is a challenge — and for scanning program source, we'll need an algorithm for **any** regular expression!