474 Instructor Notes from Day 8 slides:

Slide 4: Pattern Matching: Multiple Keywords
　　　Note that states q4 and q8 could be combined. Also q5 and q9

Slide 11: Calculate eps(q) for each state q
　　　Try it on bbacb.

Slide 12: Simulating a NDFSM
　　　Do it for the previous 8-state machine, with string bbabc

Slide 18: State minimization
　　　It's not at all obvious whether it is minimal. We need tools!

Slide 20: Getting Rid of Redundant States
　　　Reachable = {s}
　　　Added = {s}
　　　Repeat
　　　 new = {}
　　　 for s in added:
　　　　 for a in ▯:
　　　　　 state = ▯(s, a)
　　　　　 if !(state in Reachable ▯ new)
　　　　　　　 new.add(strate)
　　　　 added = new
　　　　 Reachable.append (new)
　　　Until added is empty

Slide 60: A Useful Lemma
　　　It turns out that we will only need this lemma for the case where q = s, but the more general thing is easier to
　　　prove by induction. This is common in induction proofs.