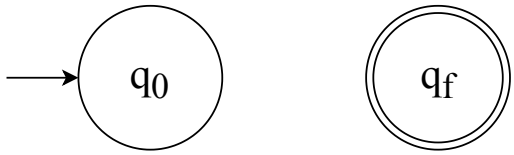
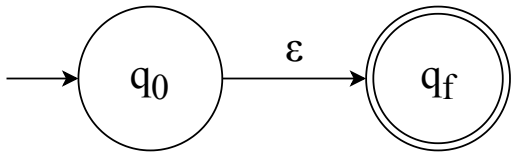
RegExp to NFA Conversion Cheat Sheet

sagyzdop.com

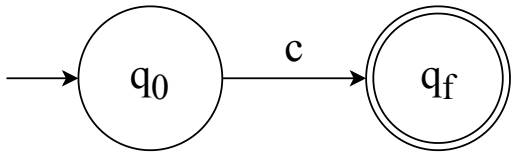
Case 1: $L = \varnothing$



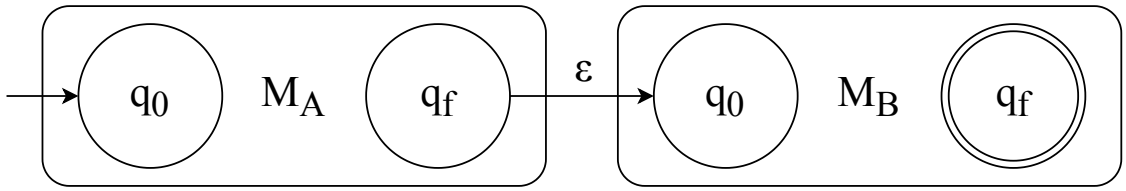
Case 2: $L = \varepsilon$



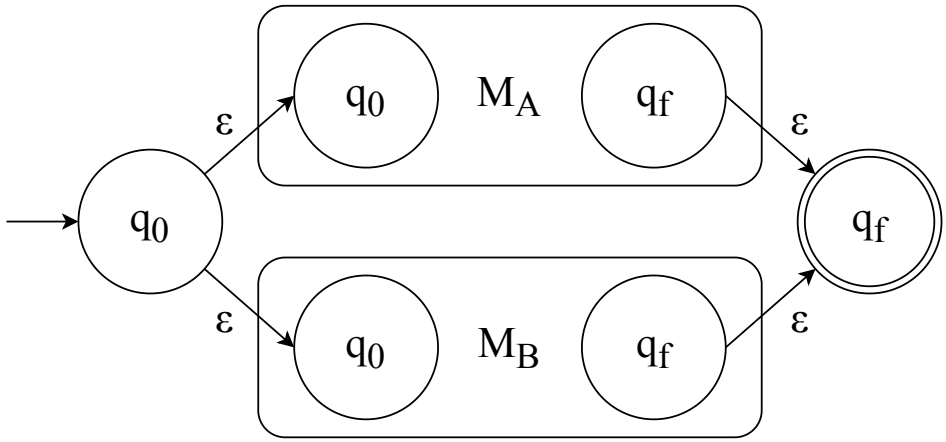
Case 3: $L = c$



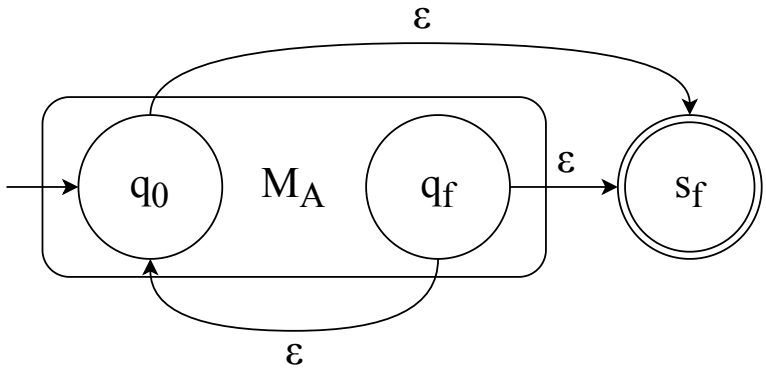
Case 4: $L = AB$



Case 5: $L = A|B$

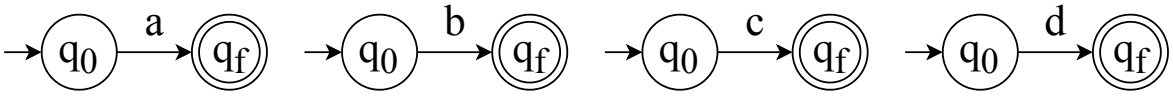


Case 6: $L = A^*$

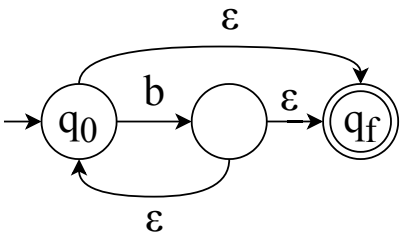


Example: $ab^*c \mid d$

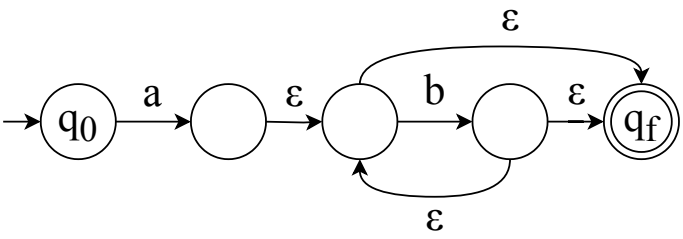
Step 1: Build the machines for each character label



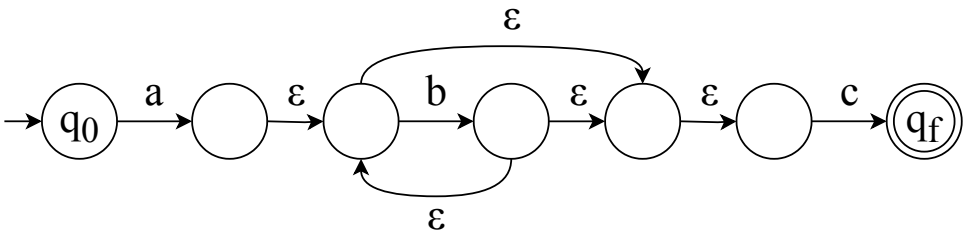
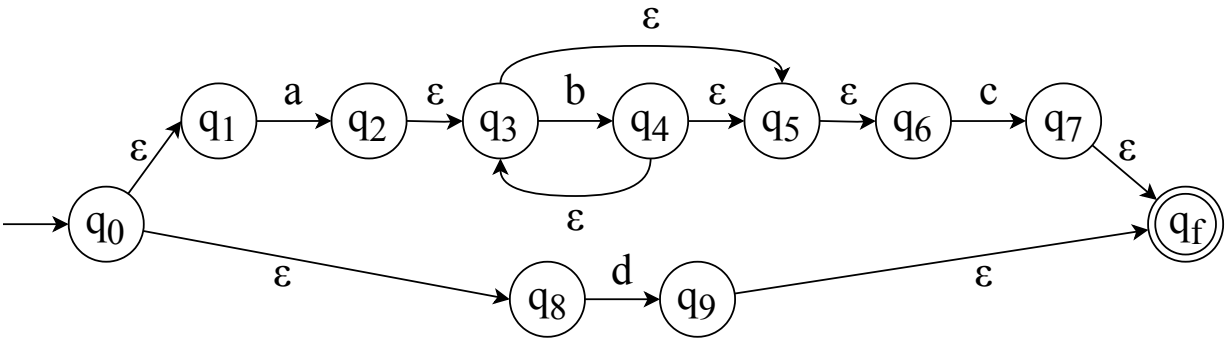
Step 2: Build the machine for the regexp b^*



Step 3: Build the machine for the regexp ab^*



Step 4: Build the machine for the regexp ab^*c



Step 5: Build the machine for the regexp $ab^*c \mid d$