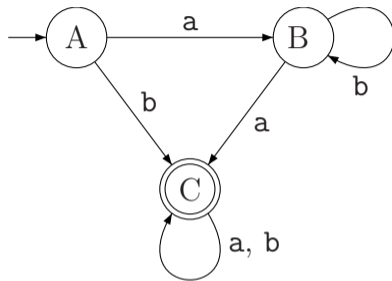


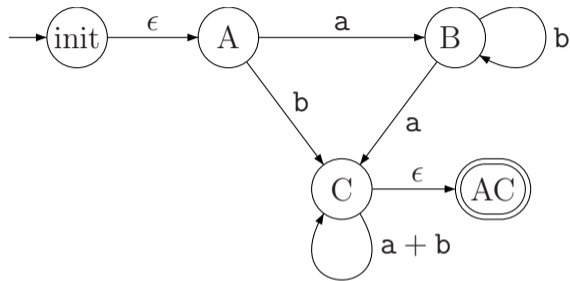
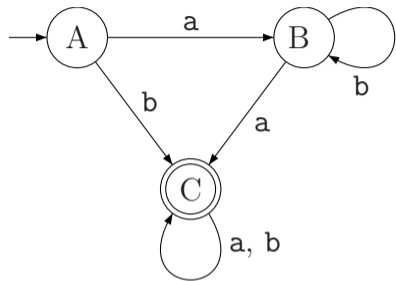
5.3

Algorithm for converting NFA into regular expression

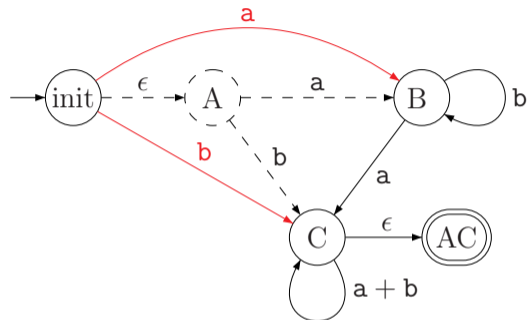
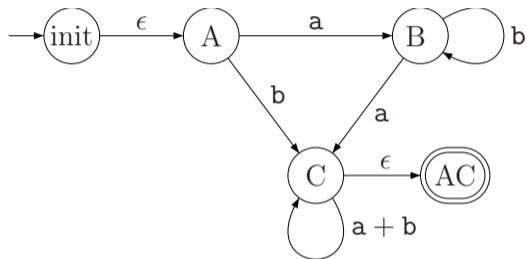
Stage 0: Input



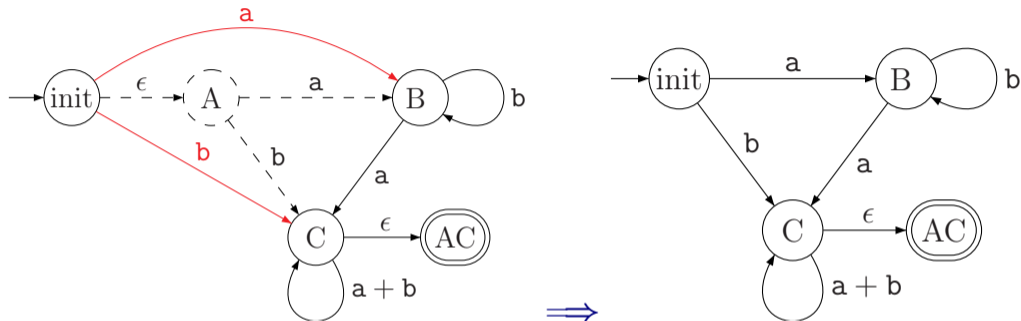
Stage 1: Normalizing



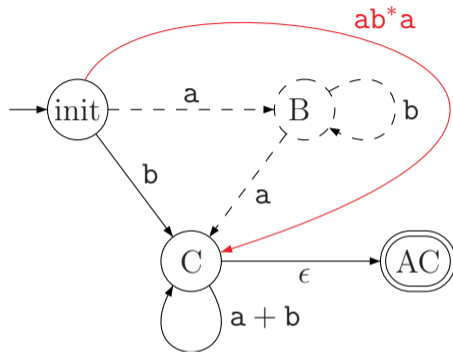
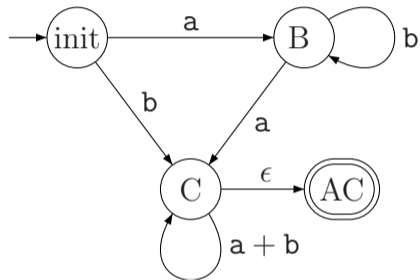
Stage 2: Remove state A



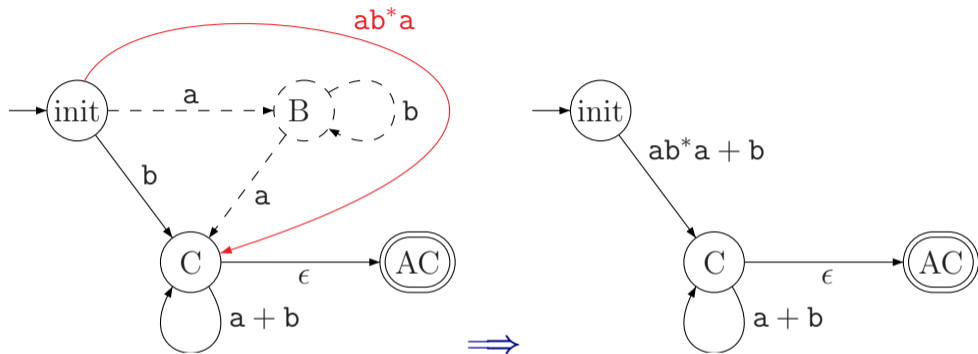
Stage 4: Redrawn without old edges



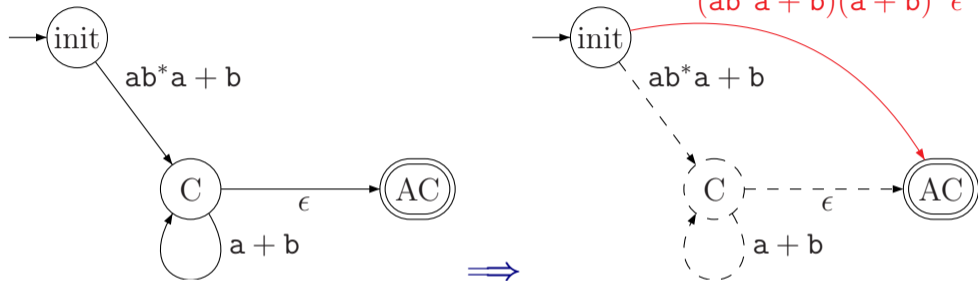
Stage 4: Removing B



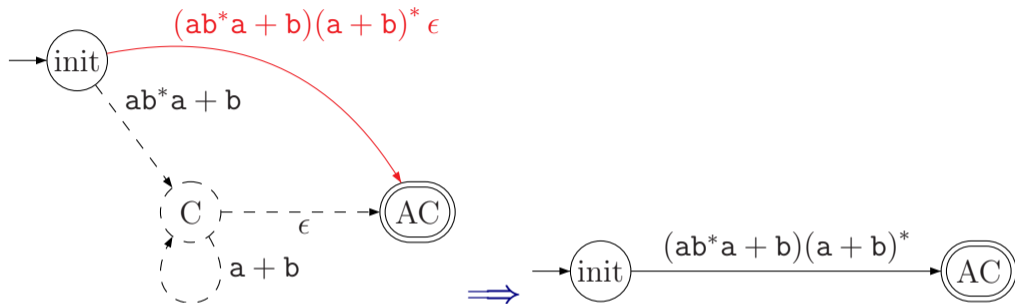
Stage 5: Redraw



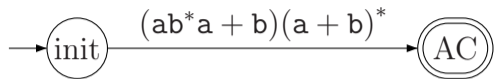
Stage 6: Removing C



Stage 7: Redraw



Stage 8: Extract regular expression



Thus, this automata is equivalent to the regular expression

$$(ab^*a + b)(a + b)^*.$$

THE END

...

(for now)