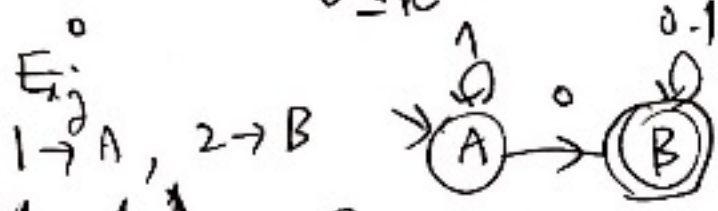
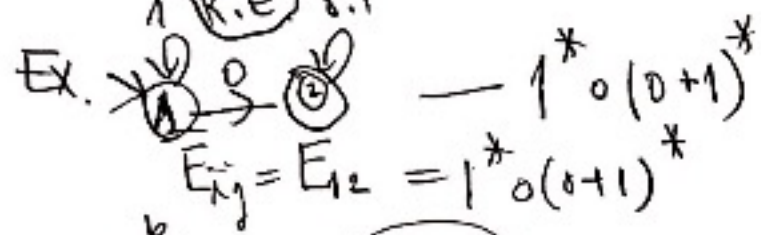


제 9차 9/26 (목) RE \Leftarrow FA Thm 3.4
 Thm 3.4

Thm 3.4 DFA \rightarrow RE
 $D = (Q, \Sigma, \delta, q_0, F)$

$Q = \{1, 2, \dots, n\}$... state numbering

$\forall i, j \leq n: L(E_{ij}) = L_{ij} = \{x \in T^* \mid \delta(i, x) = j\}$



$A = 1A + 0B$
 $B = 0B + 1B + \epsilon$

$A = \alpha A + \beta$



$A \neq \frac{1}{1-\alpha} \beta = (1 + \alpha + \alpha^2 + \dots) \beta = \alpha^* \beta$



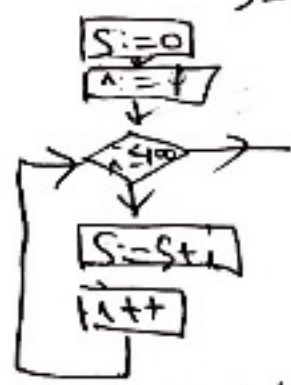
$S := 0; i := 1; (n = 100)$

do $i \leq n$ do

$S := S + i; i++$

loop invariance

$S = 1, 2, \dots, i$



Dijkstra Mini Language

if $x \geq y \rightarrow m := x$

or $x < y \rightarrow m := y$

fi

vs. if $x \geq y \rightarrow m := x$

or $x \leq y \rightarrow m := y$

vs. $m := x$ or $m := y$

if $x > y \rightarrow m := x$

or $x < y \rightarrow m := y$

vs.

if $x \geq y \rightarrow m := x$

or $x \leq y \rightarrow m := y$

fi