Tarea II. AD PND

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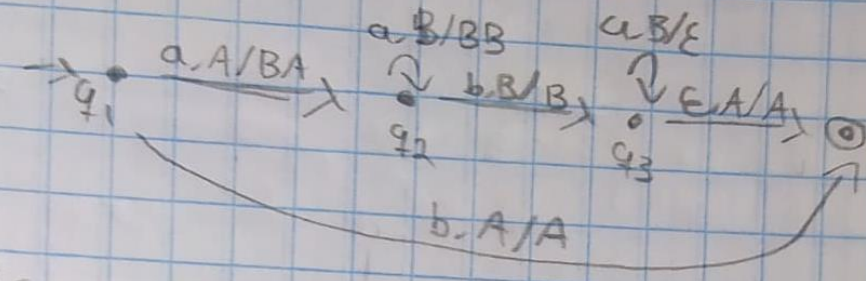
$L1 = \{(a^n) b (a^n) = \{b, aba, aabaa, aaabaaa, \ldots\}$

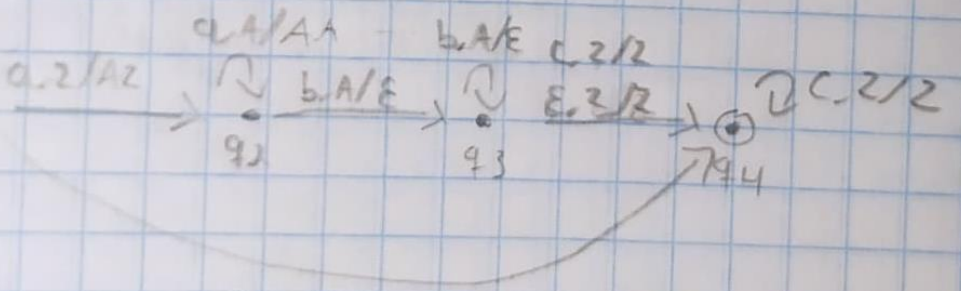


$Q = \{q_1, q_2, q_3, q_4\}$
$\Sigma = \{a, b\}$
$\Gamma = \{A, B\}$
$S = q_1$
$Z = A$
$F = \{q_4\}$

$\delta(q_1, abba, A) \vdash (q_2, bba, BA) \vdash (q_3, a, BA)$
$\vdash (q_3, \varepsilon, A) \vdash (q_4, \varepsilon, A)$

$\delta(q_1, aabbaa, A) \vdash (q_2, abbaa, BA) \vdash (q_2, bbaa, BBA)$
$\vdash (q_3, baa, BBA) \vdash (q_3, aa, BA) \vdash (q_3, a, A) \vdash (q_4, \varepsilon, A)$

$L2 = \{(a^n)(b^n)(c^m)\} = \{\varepsilon, c, ab, abc, aabbcccc, \ldots\}$



$Q = \{q_1, q_2, q_3, q_4\}$
$\Sigma = \{a, b, c\}$
$\Gamma = \{A, Z\}$
$S = q_1$
$Z = Z$
$F = \{q_4\}$

$\delta(q_1, abc, Z) \vdash (q_2, bc, AZ) \vdash (q_3, c, Z) \vdash (q_4, \varepsilon, Z)$

$\delta(q_1, aabbccc, Z) \vdash (q_2, abbccc, AZ) \vdash (q_2, bbccc, AAZ)$
$\vdash (q_3, bccc, AZ) \vdash (q_3, ccc, Z) \vdash (q_4, cc, Z) \vdash (q_4, c, Z)$