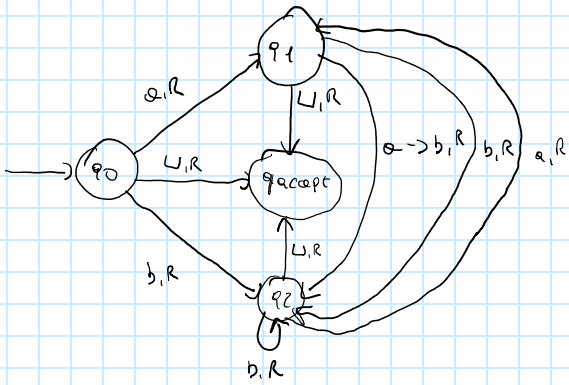
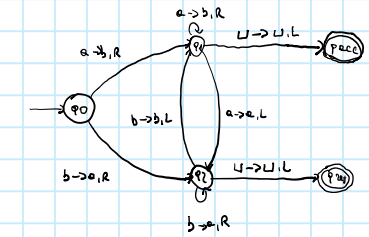
ESERCITAZIONE - MACCHINE DI TURING

lunedì 3 aprile 2023 14:54



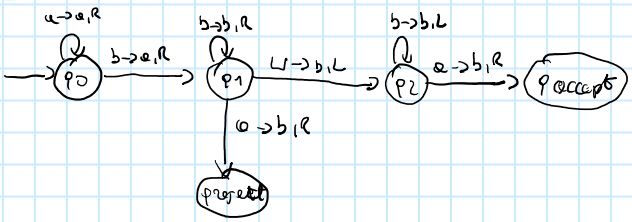
aabbaaa

c_1 = $q_0$aabbaaaa , c_2 = a$q_1$abbaaaa , c_3 = ab$q_2$bbaaaa
c_4 = abb$q_2$baaaa , c_5 = abbb$q_2$aaaa , c_6 = abbba$q_1$aaa
c_7 = abbbab$q_1$aa , c_8 = abbbabaq_1a , c_9 = abbbababq_2 , c_{10} = abbbabab q_{accept}
LA STRINGA È ACCETTATA



$(Q, \Sigma, \Gamma, \delta, q_0, q_{accept}, q_{reject})$

$Q = \{q_0, q_1, q_2, q_{accept}, q_{reject}\}$
$\Sigma = \{a, b\}$
$\Gamma = \Sigma \cup \{U\}$
δ = $\delta(q_0, a) = (q_1, b, R)$
$\delta(q_0, b) = (q_2, a, R)$
$\delta(q_0, U) = (q_{reject}, U, R)$
$\delta(q_1, a) = (q_1, b, R)$
$\delta(q_1, b) =$



$(Q, \Sigma, \Gamma, \delta, q_0, q_{accept}, q_{reject})$

$Q = \{q_0, q_1, q_2, q_{accept}, q_{reject}\}$
$\Sigma = \{a, b\}$
$\Gamma = \Sigma \cup \{U\}$
$\delta = Q \times \Gamma \to Q \times \Gamma \times \{L, R\}$
$\delta(q_0, a) = (q_0, a, R)$
$\delta(q_0, b) = (q_1, a, R)$
$\delta(q_0, U) = (q_{reject}, U, R)$
$\delta(q_1, a) = (q_{reject}, b, R)$