Francisco José de Caldas District University

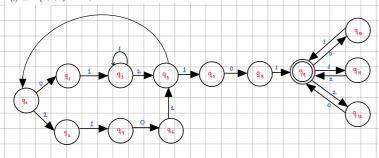
Professor: Carlos Andrés Sierra Virgiiez

Student: Gabriela Martínez Eslava - 20202020117

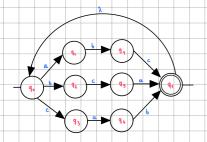
Computer Science III: Workshop I.

1. Define the corresponding finite-State machine for:

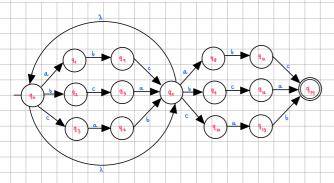
(i) $\Sigma = \{0, 1, 2\}$. $L = (01^*2 \cup 2102)^*101(01 \cup 12 \cup 20)^*$.



(ii) $\Sigma = \{a, b, c\}$. $L = (abc \cup bca \cup cab)(abc \cup bca \cup cab)^*$.



(iii) $\Sigma = \{a, b, c\}$. $L = (abc \cup bca \cup cab)^*(abc \cup bca \cup cab)$.



(iv) $\Sigma = \{0, 1, 2\}$. $L = (01^*2 \cup 10^*2 \cup 21^*0)^*(01 \cup 12 \cup 20)^*101$

