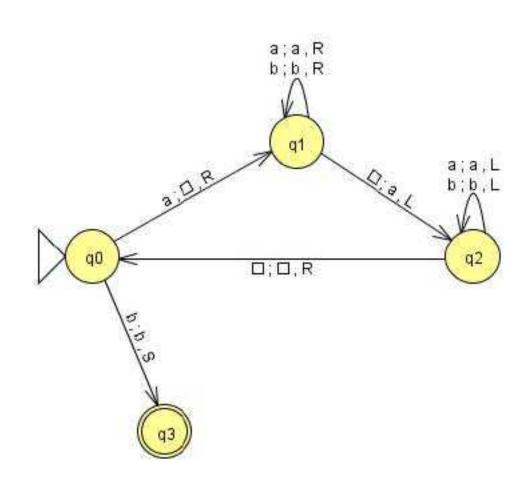
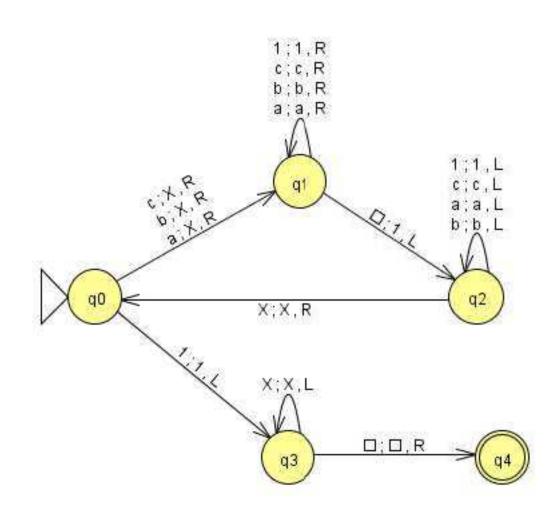
Turing Machines Exercises

 $a^nb^m \rightarrow b^ma^n$

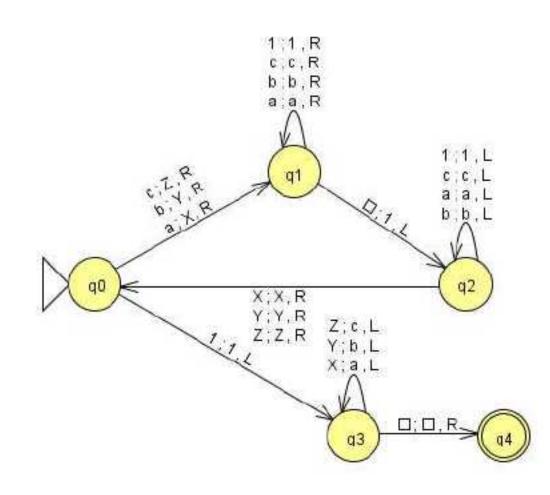


 $(a+b+c)^n \rightarrow X^n1^n$



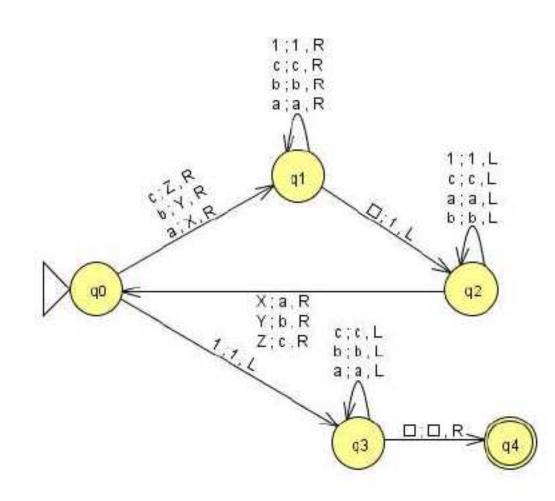
 $w \in (a+b+c)^n$, $w \rightarrow w1^n$

a)

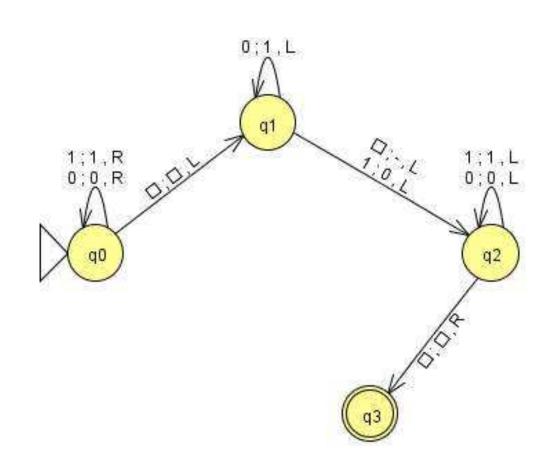


 $w \in (a+b+c)^n$, $w \rightarrow w1^n$

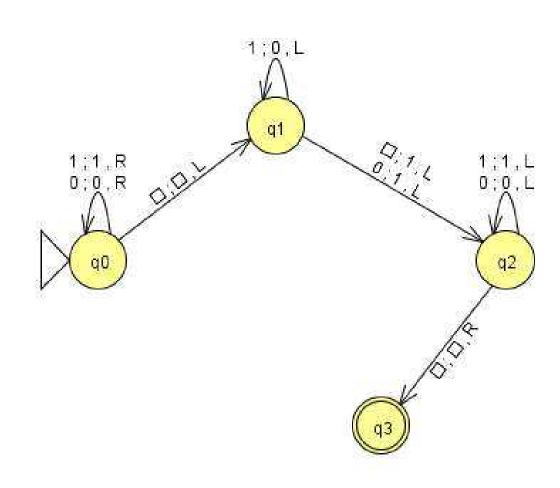
b)



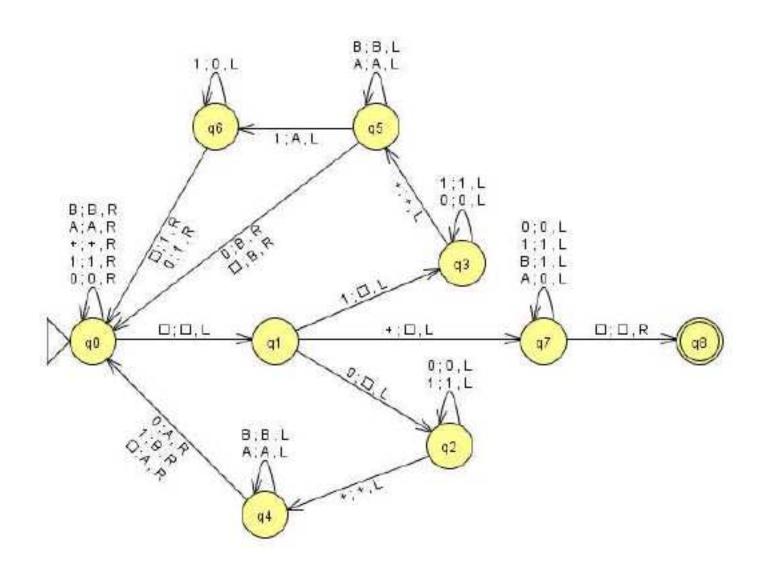
Predecessor in binary

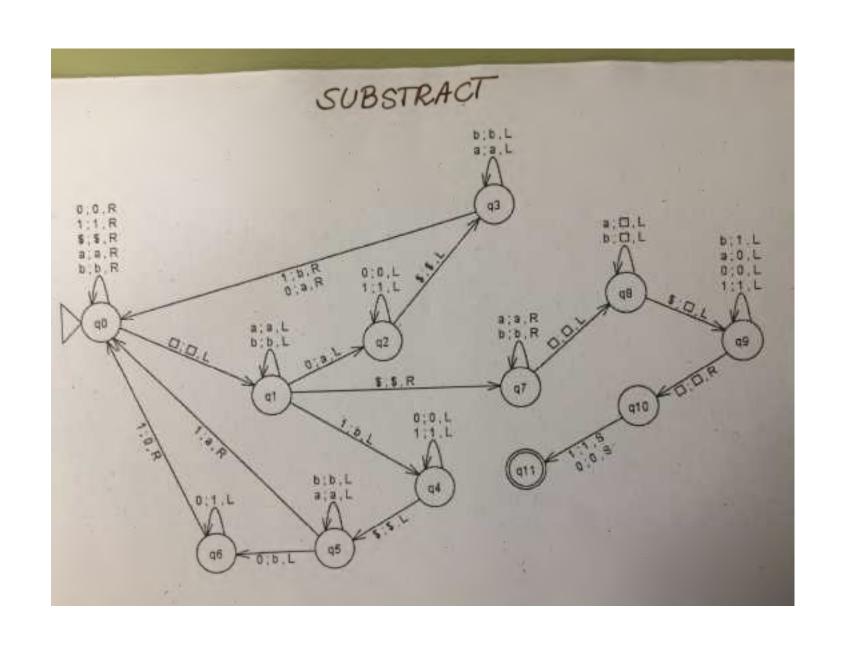


Successor in binary



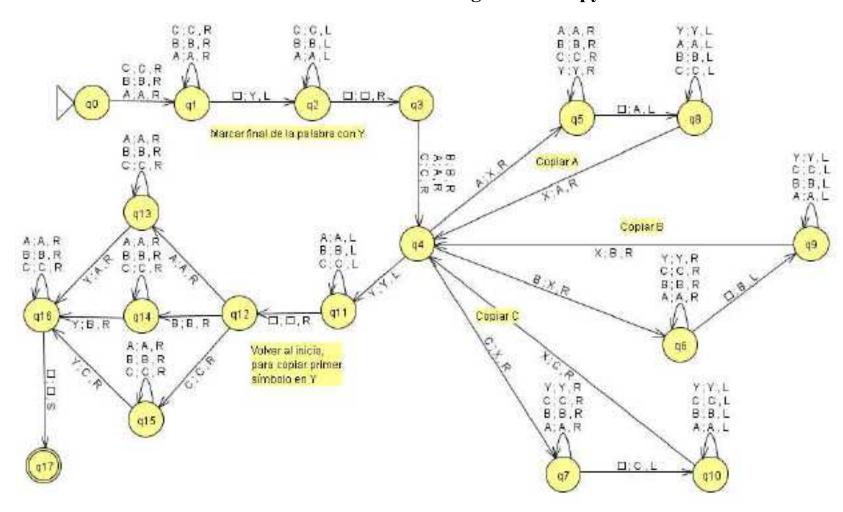
Binary adder





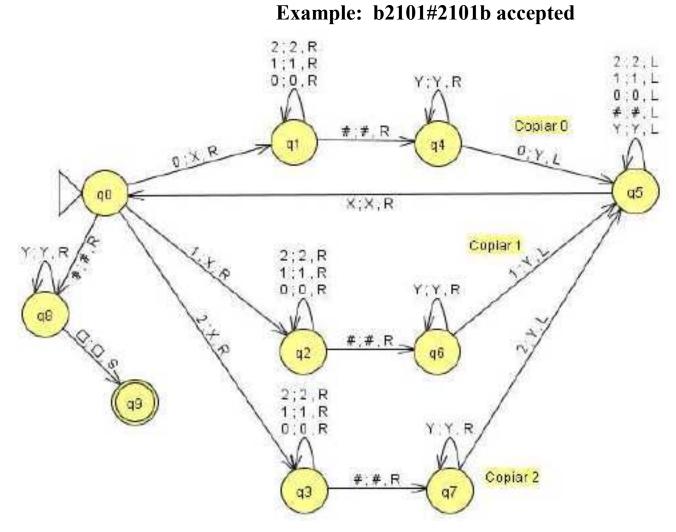
Copier

Copies a string over the alphabet {A,B,C}. No separation character between original and copy



Comparator

Input: two words over the alphabet {0,1,2}, separated by the symbol #
Output: Acceptance if the words are equal.



Accept palindrome

$$\Sigma = \{a, b\}$$

