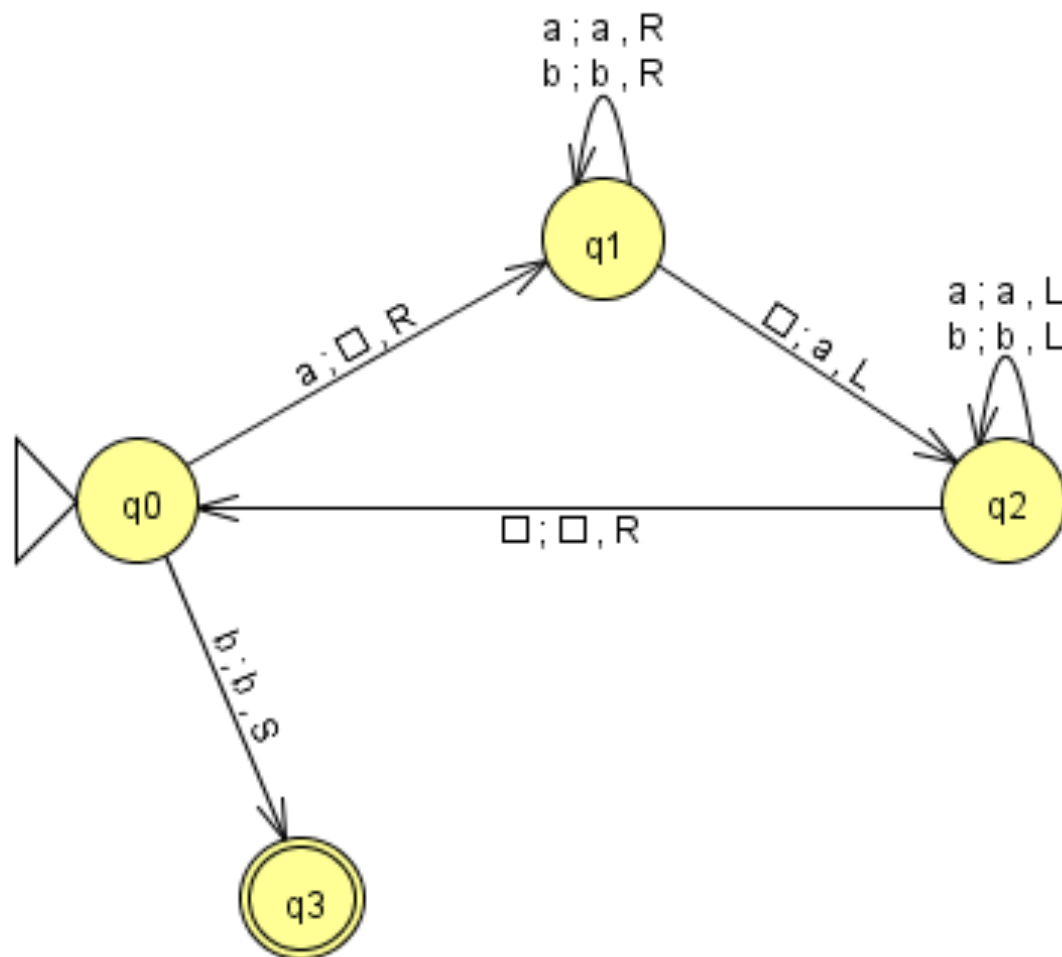


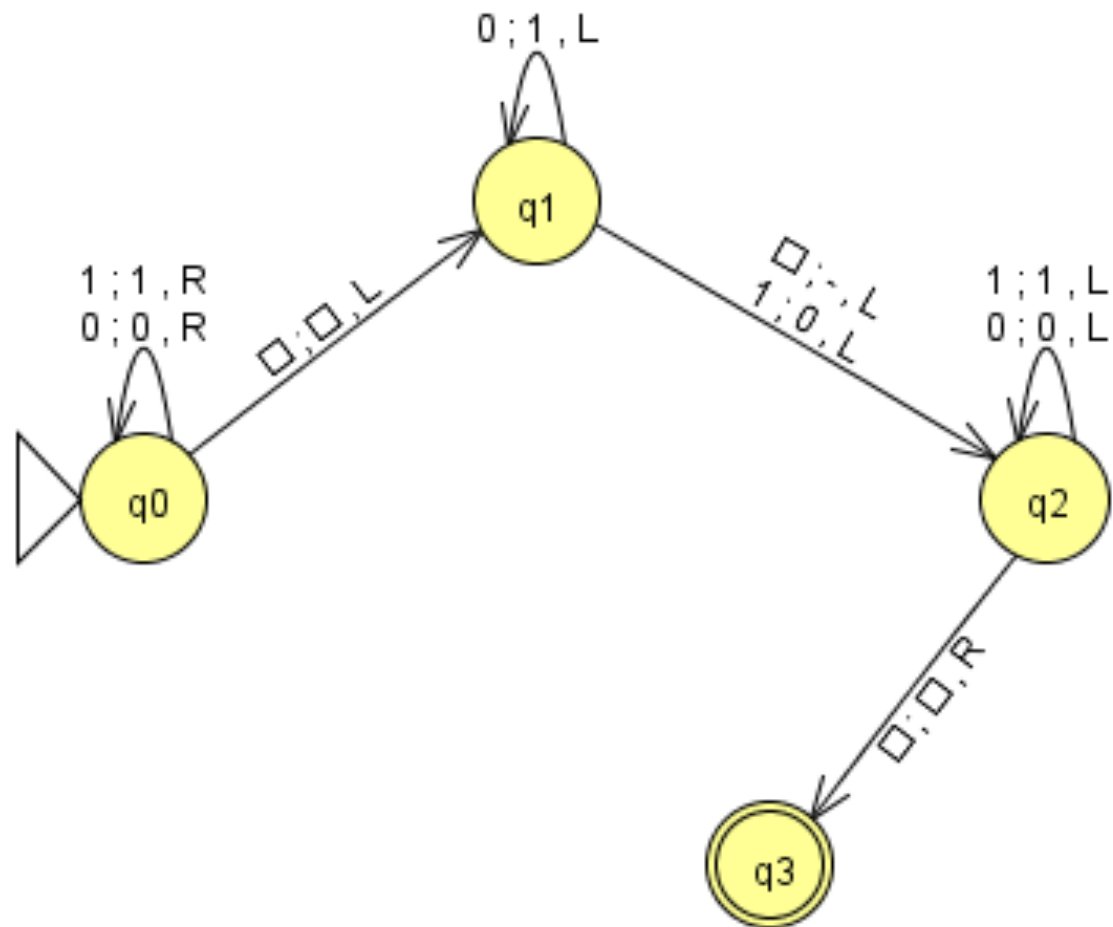
# Turing Machines

## Some exercises

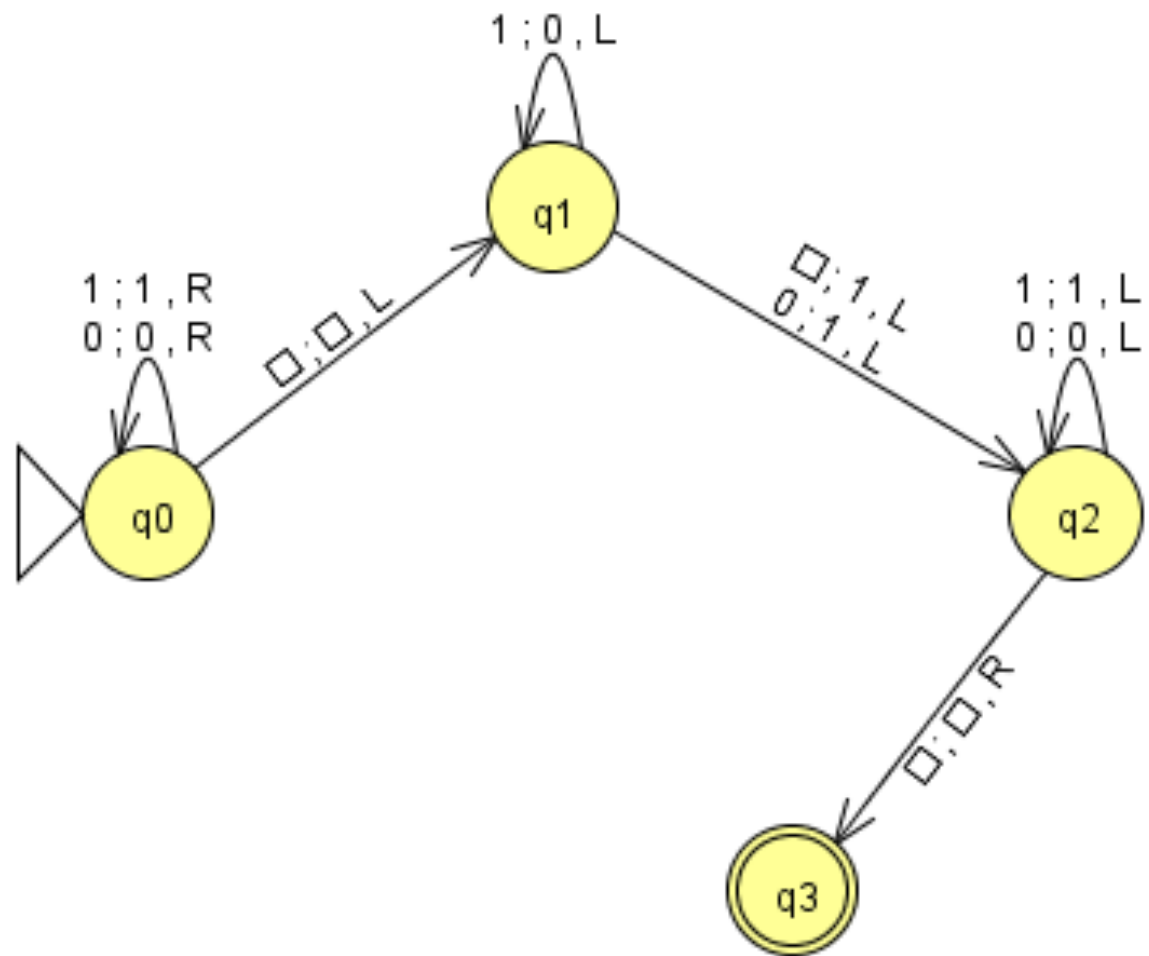
$a^n b^m \rightarrow b^m a^n$



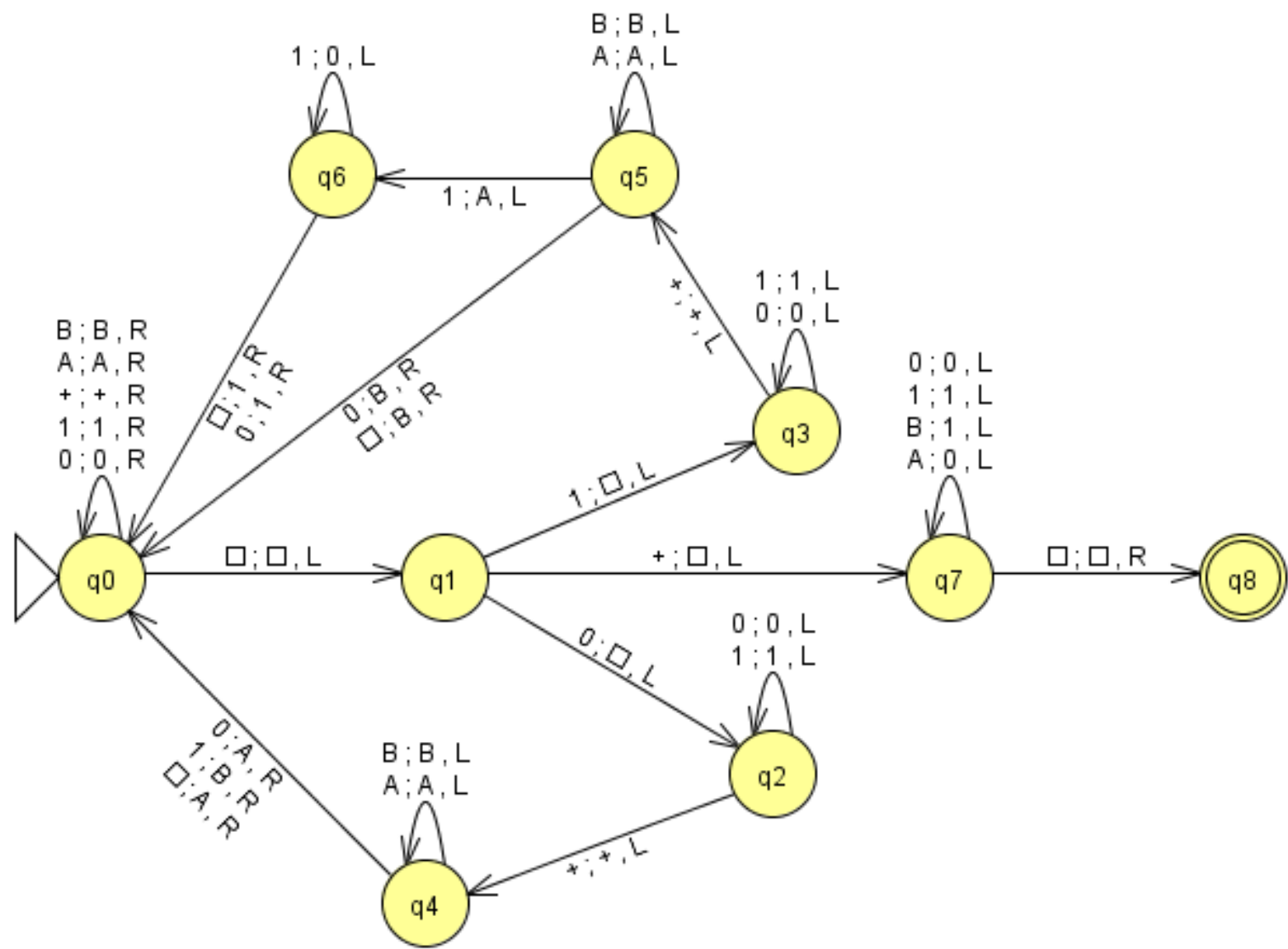
# Predecessor in binary



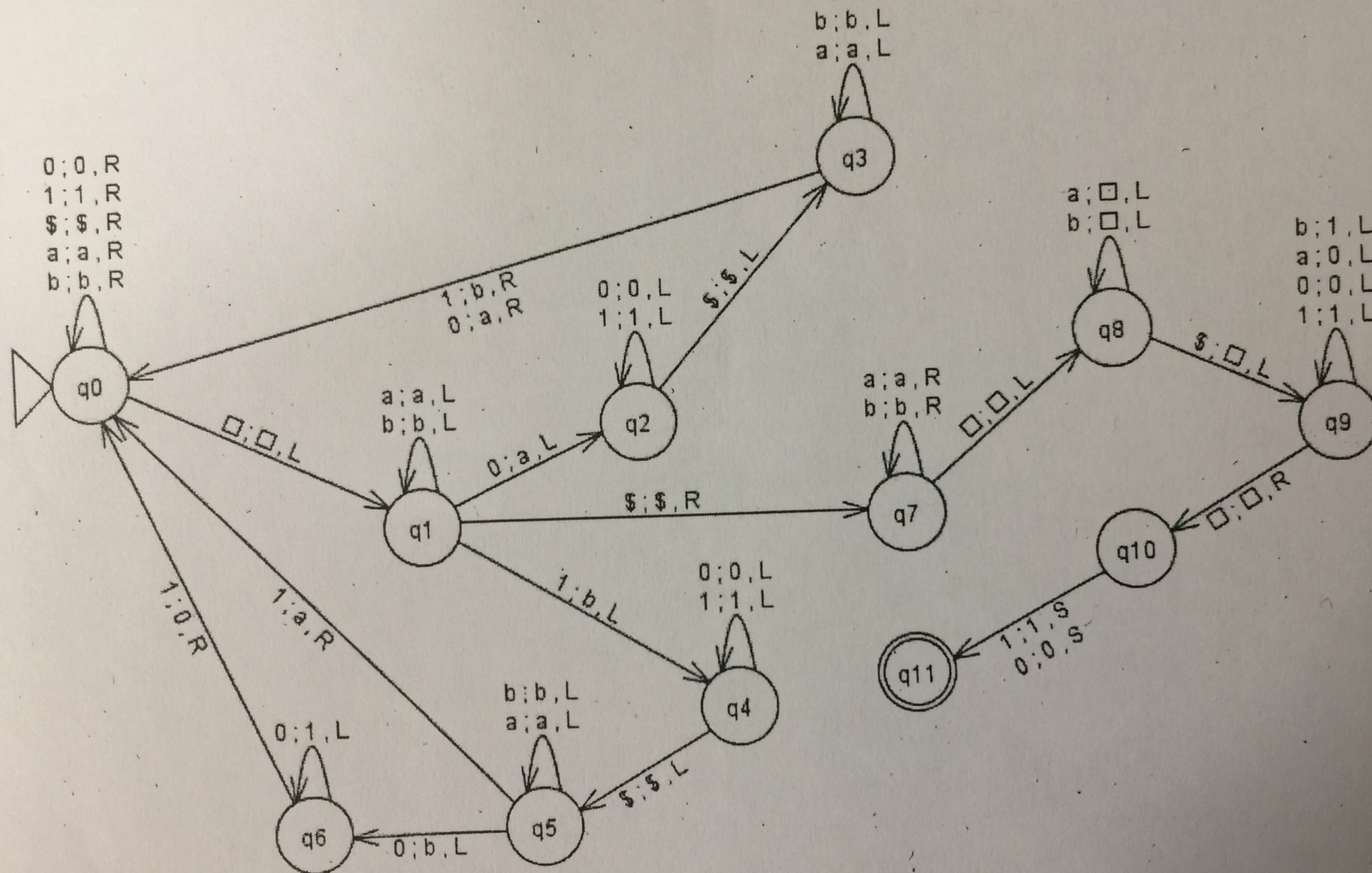
# Successor in binary



# Binary adder

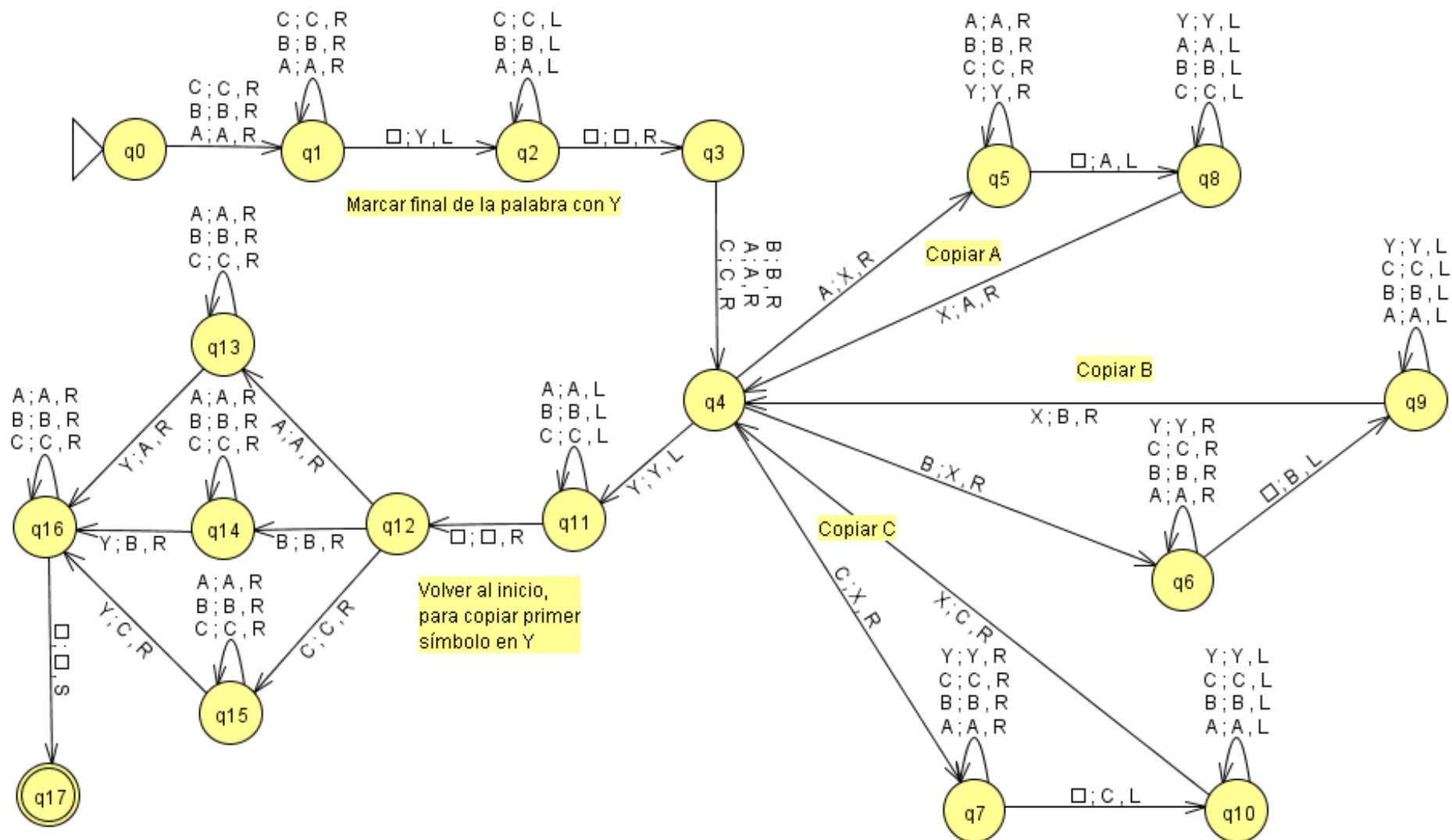


# SUBTRACT



# Copier

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

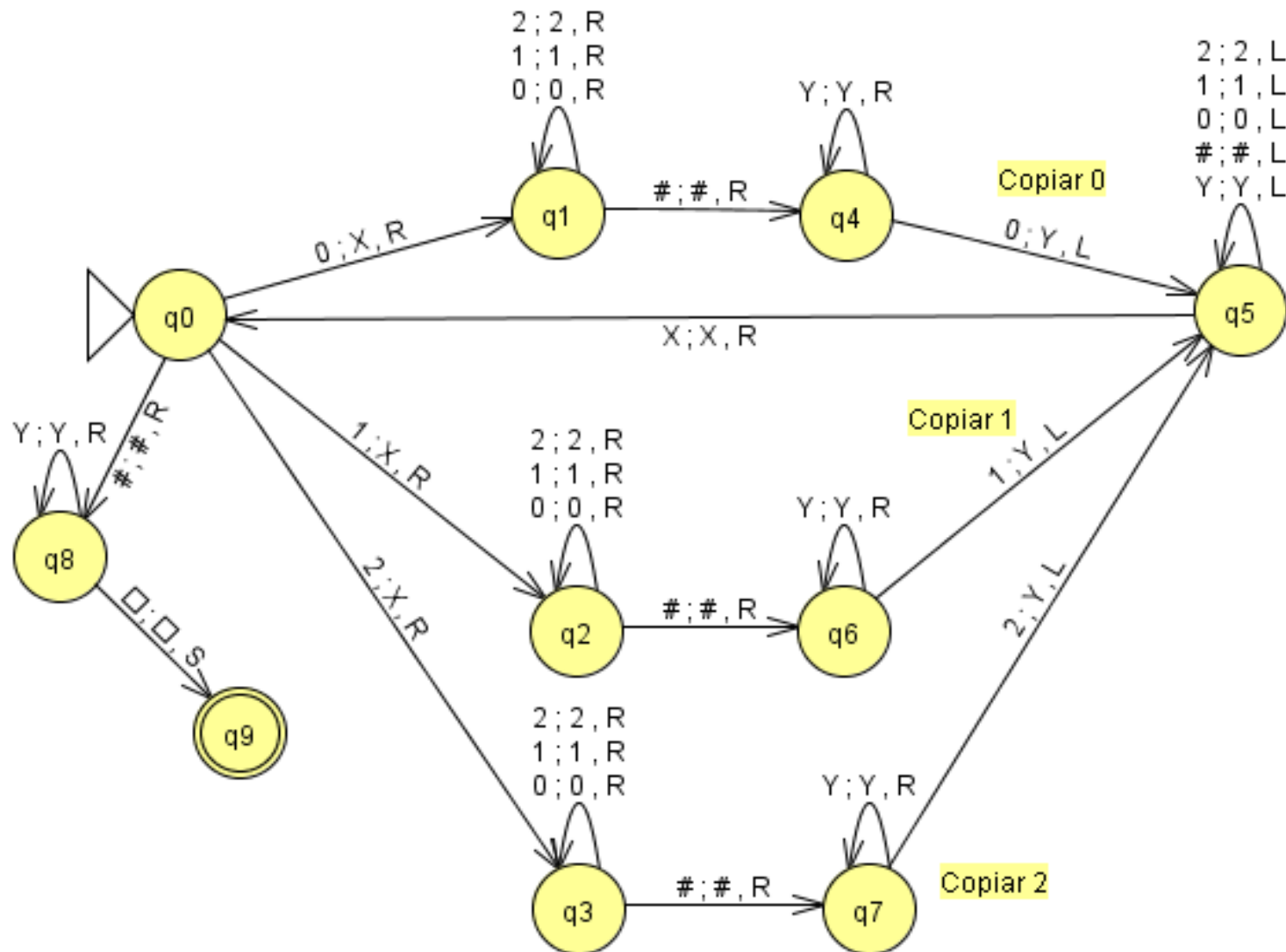


# Comparator

**Input:** two words over the alphabet  $\{0,1,2\}$ , separated by the symbol #

**Output:** Acceptance if the words are equal.

**Example:** b2101#2101b accepted





# Accept palindrome

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

