Compte Rendu Projet Théorie des Langages

CABOUAT Charlotte

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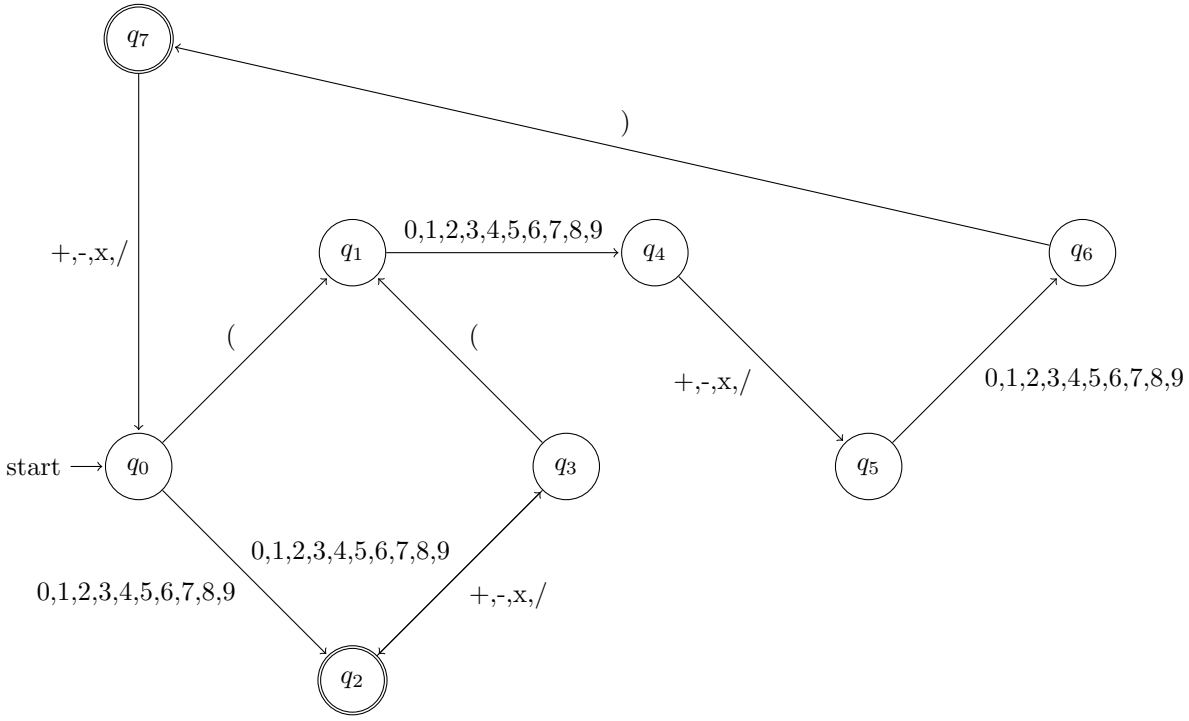
1 Grammaire

S$\rightarrow CADBCADS$
$A \rightarrow 1+2+3+4+5+6+7+8+9+0$
$B \rightarrow$ " + " + " − " + "/" + "x"
$C \rightarrow ($
$C \rightarrow \epsilon$
$D \rightarrow)$
$D \rightarrow \epsilon$
$S \rightarrow \epsilon$

2 Automate

$\sum = \{0,1,2,3,4,5,6,7,8,9,+,-,/,x,(,)\}$
$Q = \{$ q_0,q_1,q_2,q_3,q_4,q_5,q_6,q_7
$q_0 = q_0$
F=$\{$ q_2,q_7
$T = (q0,(,q1);(q0,0,q3);(q1,0,q4);(q2,+,q3);(q3,0,q2);$
$(q3,(,q1);(q4,+,q5);(q5,0,q6);(q6,),q7);(q7,+,q0)$


q_7
)
+,-,x,/
q_1
0,1,2,3,4,5,6,7,8,9
q_4
q_6
(
(
+,-,x,/
0,1,2,3,4,5,6,7,8,9
start
q_0
q_3
q_5
0,1,2,3,4,5,6,7,8,9
0,1,2,3,4,5,6,7,8,9
+,-,x,/
q_2