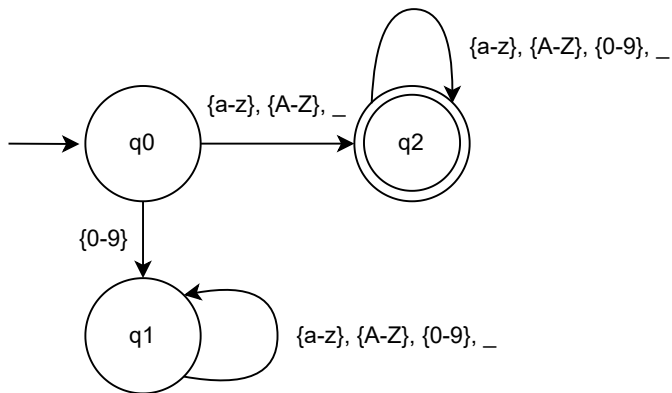


DFA for Identifiers

RE: $[a-zA-Z_][a-zA-Z0-9_]^*$

DFA for identifiers of any character length. In many programming languages, identifiers can only contain alphabetic letters, numbers, and underscores. Identifiers can also not start with a number. These rules are reflected by the DFA below.

Graph



Table

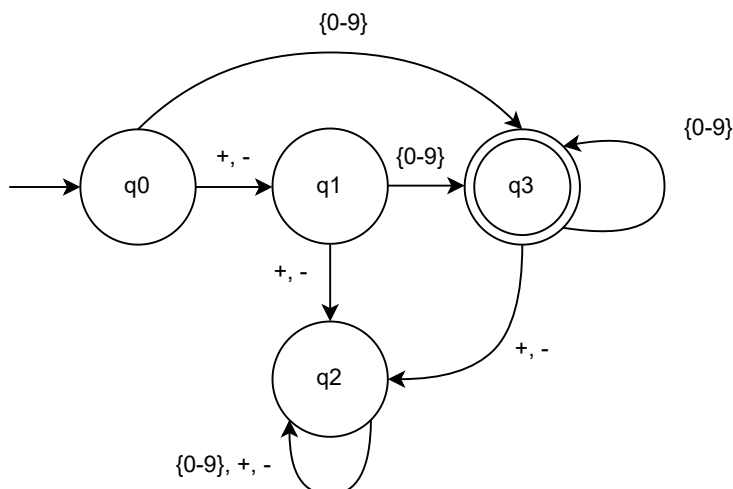
	{a-z}	{A-Z}	{0-9}	-
→ q0	{q2}	{q2}	{q1}	{q2}
q1	{q1}	{q1}	{q1}	{q1}
<u>q2</u>	{q2}	{q2}	{q2}	{q2}

DFA for Integers

RE: $[0-9+ -][0-9]^*$

DFA that accepts integers of any length. A plus or minus sign may also be optionally added at the beginning of the input.

Graph



Table

	{0-9}	+	-
→ q0	{q3}	{q1}	{q1}
q1	{q3}	{q2}	{q2}
q2	{q2}	{q2}	{q2}
<u>q3</u>	{q3}	{q2}	{q2}