adapted from MacLennan, *Principles of Programming Languages*, 3rd Edition, Chapter 4, Figure 4.1, p. 152


\[
<number> ::= +<unsigned number> \\
| -<unsigned number> \\
| <unsigned number>
\]

\[
<unsigned number> ::= <decimal number> \\
| <exponent part> \\
| <decimal number> <exponent part>
\]

\[
<decimal number> ::= <unsigned integer> \\
| <decimal fraction> \\
| <unsigned integer> <decimal fraction>
\]

\[
<exponent part> ::= E<integer>
\]

\[
<unsigned integer> ::= <digit> \\
| <unsigned integer> <digit>
\]

\[
<decimal fraction> ::= .<unsigned integer>
\]

\[
<integer> ::= +<unsigned integer> \\
| -<unsigned integer> \\
| <unsigned integer>
\]

\[
<digit> ::= 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
\]