The Scanner

- Reading only one character at a time the scanner transforms a sequence of characters into a sequence of symbols that has no structure.
- There are single-character symbols ('<', x) and multi-character symbols ('<=','variable'). All symbols are uniquely identified by a token (integer).

remembered.

(integer).
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The scanner performs a **membership test** on a sequence of characters. It checks whether the symbols it sees are valid symbols of the programming language.

What are valid symbols?

What is needed:

A specification of valid symbols -> <u>regular expression</u> and a formalism to write such a specification.

• In selfie...

the chosen formalism is <u>EBNF</u> (see in the <u>grammar.md</u> file).

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