**SPL Documentation**

Content:

1. Scanner
2. Parser
3. Pretty-printer (?)
4. Scanner
5. General target of scanner

Scanner work is to tokenize the SPL programme into tokens defined by regular expressions:

< id, ….> - alpha (‘\_’, alphaNum)\*

< int, ….> - [-] (digit)+

< op, ….> - ‘+’, ‘-‘, ‘\*’, ‘/‘, ‘%’, ‘==‘, ‘<’, ‘>‘, ‘<=’, ‘>=‘, ‘!=’, ‘&&‘, ‘||’, ‘:’

< br, ….> - ‘(’, ‘)‘, ‘[’, ‘]‘, ‘{’, ‘}‘

< pnc, ….> - ‘,’, ‘;’

< fld, ….> - ‘.’

1. Algorithm

Symbols are being read one by one, added to string and changing state of the scanner automata. In the moment of transition from one final state to another final state , tuple <k1, string> is created and added to list of tokens. String is then cleared and algorithm follows until end of input.