

JFlex Scanner and Parser Application Software Design Document

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December 15, 2017

1. Overview

This software provides an application of a scanner using our Pascal language as described in the grammar found in the design below. It will also provide an application of a parser using our Pascal language as described in this grammar.

2. Design

Our small Pascal keywords and symbols,
the definitive list.

KEYWORDS	SYMBOLS
1) and	;
2) array	,
3) begin	.
4) div	:
5) do	[
6) else]
7) end	(
8) function)
9) if	+
10) integer	-
11) mod	=
12) not	<>
13) of	<
14) or	<=

- 15) procedure >
- 16) program >=
- 17) real *
- 18) then /
- 19) var :=
- 20) while

The scanner will scan through each symbol and number to see to make sure it is indeed a part of the grammar.

The parser will recognize whether an input string of tokens is a valid Mini- Pascal program as defined in the grammar