

Assignment 1 Document

Atomic lexical elements of the language

Element		Expression
id	::=	letter alphanum*
alphanum	::=	letter | digit | _
integer	::=	nonzero digit* | 0
float	::=	integer fraction [e[+|-] integer]
fraction	::=	.digit* nonzero | .0
letter	::=	a..z | A..Z
digit	::=	0..9
nonzero	::=	1..9
string	::=	" alphanum "

Operators, punctuation and reserved words

==	+	|	(	;	if	public	read
<>	-	&	)	,	then	private	write
<	*	!	{	.	else	func	return
>	/	?	}	:	integer	var	main
<=	=		[	::	float	class	inherits
>=			]	"	string	while	break
					void		continue

Comments

- Block comments start with /* and end with */ and may span over multiple lines.
- Inline comments start with // and end with the end of the line they appear in.

Lexical Specification

- **id**: [a..zA..Z]([a..zA..Z] | [0..9] | _)*
- **integer**: ([1..9]([0..9])*) | 0