

CILA

Language specification

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Grammar

integer	::=	<i>digit</i> integer <i>digit</i>
keyword	::=	if then else fi while do od div mod or and not let
alfanum	::=	<i>letter</i> alfanum <i>letter</i> alfanum <i>digit</i>
ident	::=	alfanum (not in keyword)
program	::=	instruction program instruction
instruction	::=	assignment if logic _{expr} then program fi if logic _{expr} then program else program fi while logic _{expr} do program od
assignment	::=	let ident := arith _{expr} ; let ident := [arith _{expr} *]{ arith _{expr} , ... } ; ident [arith _{expr}]* := arith _{expr} ; fun ident (ident, ...) nuf ;
logic _{expr}	::=	(logic _{expr} or)* logic _{summand}
logic _{summand}	::=	(logic _{summand} and)* logic _{multiplicand}
logic _{multiplicand}	::=	rel _{expr} not logic _{multiplicand}
rel _{expr}	::=	arith _{expr} rel _{op} arith _{expr} (logic _{expr})
rel _{op}	::=	= < > <= >= <>
arith _{expr}	::=	(arith _{expr} summ _{op})* arith _{summand}
arith _{summand}	::=	(arith _{summand} mult _{op})* arith _{multiplicand}
arith _{multiplicand}	::=	simple _{expr} simple _{expr} ^ arith _{multiplicand}
simple _{expr}	::=	(arith _{expr}) integer ident ident [arith _{expr}] ident (arith _{expr} , ...)
summ _{op}	::=	+ -
mult _{op}	::=	* div mod