1 Gramàtica

Els símbols terminals o tokens estan marcats en **negreta**.

$$program \rightarrow declList$$
$$declList \rightarrow declList \; decl$$
$$| \; decl$$
$$declList \rightarrow varDecl$$
$$| \; funcDecl$$
$$| \; procDecl$$
$$varDecl \rightarrow const \; type \; varDeclList \; varInit \; \textbf{;}$$
$$varDeclList \rightarrow \textbf{ID}$$
$$| \; varDeclList \; \textbf{,} \; \textbf{ID}$$
$$varInit \rightarrow \; = \; exprSimple$$
$$| \; \lambda$$
$$const \rightarrow \textbf{const}$$
$$| \; \lambda$$
$$funcDecl \rightarrow \textbf{func} \; \textbf{ID} \; \textbf{(} \; args \; \textbf{)} \; \textbf{:} \; type \; \textbf{begin} \; bloc \; \textbf{end} \; \textbf{ID} \; \textbf{;}$$
$$procDecl \rightarrow \textbf{proc} \; \textbf{ID} \; \textbf{(} \; args \; \textbf{)} \; \textbf{begin} \; bloc \; \textbf{end} \; \textbf{ID} \; \textbf{;}$$
$$args \rightarrow argList$$
$$| \; \lambda$$
$$argList \rightarrow type \; \textbf{id} \; argListCont$$
$$argListCont \rightarrow \textbf{,} \; argList$$
$$| \; \lambda$$
$$bloc \rightarrow statement \; \textbf{;} \; bloc$$
$$| \; \lambda$$
$$statement \rightarrow varDecl$$
$$| \; iterationStatement$$
$$| \; conditionalStatement$$
$$| \; returnStatement$$
$$| \; \textbf{break}$$
$$iterationStatement \rightarrow forIteration$$
$$| \; whileIteration$$
$$forIteration \rightarrow \textbf{for} \; \textbf{(} \; forInit \; \textbf{;} \; exprSimple \; \textbf{;} \; forPostExpression \; \textbf{)} \; \textbf{do} \; bloc \; \textbf{end} \; \textbf{;}$$
$$forInit \rightarrow expression$$
$$| \; \lambda$$
$$forPostExrpession \rightarrow expression$$
$$| \; \lambda$$

$$whileIteration \rightarrow \textbf{while} \ (\ exprSimple \ ) \ \textbf{do} \ bloc \ \textbf{end}$$
$$condStatement \rightarrow ifStatement$$
$$| \ switchStatement$$
$$ifStatement \rightarrow \textbf{if} \ exprSimple \ \textbf{do} \ bloc \ elseIfStatement \ \textbf{end}$$
$$elseIfStatement \rightarrow \textbf{else if} \ exprSimple \ \textbf{do} \ bloc \ elseIfStatement$$
$$| \ elseStatement$$
$$elseStatement \rightarrow \textbf{else do} \ bloc$$
$$\rightarrow \lambda$$
$$switchStatement \rightarrow \textbf{switch} \ (\ exprSimple \ ) \ \textbf{begin} \ caseBloc \ \textbf{end}$$
$$caseBloc \rightarrow \textbf{case} \ literal? \ \textbf{do} \ bloc \ \textbf{end} \ caseBloc$$
$$| \ \textbf{default do} \ bloc \ \textbf{end}$$
$$| \ \lambda$$