# Languages-beta: SIMPLE-5-Programs

The PLanCompS Project

`Languages-beta/SIMPLE/SIMPLE-5-Programs/SIMPLE-5-Programs.cbs`*

*Language* "`SIMPLE`"

## 5 Programs

*Syntax* *Pgm* : pgm ::= decls

*Semantics* run⟦ *Decls* : pgm ⟧ : ⇒ values = scope(collateral(declarations⟦ *Decls* ⟧),
sequential(initialisations⟦ *Decls* ⟧,
apply(assigned(bound("`main`")),
tuple( ))))

*Syntax* *Decls* : decls ::= decl decls?

*Semantics* declarations⟦ _ : decls ⟧ : (⇒ environments)+
*Rule* declarations⟦ *Decl* ⟧ =
declare⟦ *Decl* ⟧
*Rule* declarations⟦ *Decl* *Decls* ⟧ =
declare⟦ *Decl* ⟧,
declarations⟦ *Decls* ⟧

*Semantics* initialisations⟦ _ : decls ⟧ : (⇒ null-type)+
*Rule* initialisations⟦ *Decl* ⟧ =
initialise⟦ *Decl* ⟧
*Rule* initialisations⟦ *Decl* *Decls* ⟧ =
initialise⟦ *Decl* ⟧,
initialisations⟦ *Decls* ⟧

*Suggestions for improvement: `plancomps@gmail.com`.
Issues: `https://github.com/plancomps/CBS-beta/issues`.