

2006

1a

Program 1: 0

Program 2: 2

1b

Program 1: 0

Program 2: 2

Grammar Rule

Semantic Rule

■ c)

procedure →

insert(id.name, param.kind)

proc id (*param*) *stmt*

param → *type id*

param.kind = *value*

param → **ref** *type id*

param.kind = *ref*

param → **result** *type id*

param.kind = *result*

call → **id** (*exp*)

call.ok =

if (*lookupkind(id.name)* = *ref* **or**

lookupkind(id.name) = *result*)

then (*exp.kind* = *var*)

else *true*

*exp*₁ → **id** [*exp*₂]

*exp*₁.*kind* = *var*

exp → **id**

exp.kind = *var*

*exp*₁ → *exp*₂ *aritop* *exp*₃

*exp*₁.*kind* = *value*
