Procesadores de Lenguajes

MEMORIA DE PROYECTO - HITO 2: ANALIZADOR SINTÁCTICO

Grupo 10

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1 | Especificación del procesamiento de vinculación

```
var ts //Tabla de simbolos
vincula (prog(Blo)):
    ts = creaTS()
    vincula (Blo)
vincula(bloq(Decs, Insts)):
    abreAmbito(ts)
    recolecta Decs (Decs)
    vincula (Insts)
    cierra Ambito (ts)
recolectaDecs(si_decs(LDecs)):
    recolecta Decs (Ldecs)
recolectaDecs(no_decs()): noop
recolectaDecs (muchas_decs (LDecs, Dec)):
    recolecta Decs (LDecs)
    recolecta Dec (Dec)
recolectaDecs (una_dec(Dec)):
    recolecta Dec (Dec)
recolecta Vars (muchas_var(LVar, Var)):
    recolecta Vars (LVar)
    recolecta Var (Var)
recolecta Vars (una_var(Var)):
    recolecta Var (Var)
recolecta Var (var (Tipo, id)):
    vincula (Tipo)
    if contiene (ts, id) then
         error
    else
         inserta (ts, id, $)
    end if
recolectaDec (dec_simple(Var)):
    recolecta Var (Var)
recolectaDec(dec_type(Var)):
    recolecta Var(Var)
recolectaDec(dec_proc(id, PFmls, Blo)):
    if contiene (ts, id) then
         error
    else
        inserta (ts, id, $)
    end if
    abreAmbito(ts)
    recolectaPFmls (PFmls)
```

```
vincula (Blo)
    cierra Ambito (ts)
vincula(tipo_array(Tipo, litEnt)):
    vincula (Tipo)
vincula(tipo_punt(Tipo)):
    vincula (Tipo)
vincula(tipo_bool()): noop
vincula(tipo_int()): noop
vincula(tipo_real()): noop
vincula(tipo_string()): noop
vincula(tipo_ident(id)):
    $.vinculo = vinculoDe(ts,id)
    if $.vinculo == false then
    end if
vincula (tipo_struct(LVar)):
    recolecta Vars (LVar)
vincula(si_inst(LInst)):
    vincula (LInst):
vincula(no_inst()): noop
vincula(muchas_inst(LInst,Inst)):
    vincula (LInst)
    vincula (Inst)
vincula(una\_inst(Inst)):
    vincula (Inst)
recolectaPFmls(si_pformal(LPFml)):
    recolectaPFmls(LPFml)
recolectaPFmls(no_pformal()): noop
recolectaPFmls(muchos_pformal(LPFml,PFml)):
    recolectaPFmls(LPFml)
    recolectaPFml(PFml)
recolectaPFmls(un_pformal(PFml))
    recolectaPFml(PFml)
recolectaPFml(pformal ref(Tipo, id)):
    vincula (Tipo)
    if contiene (ts, id) then
        error
    else
        inserta (ts, id, $)
    end if
recolectaPFml(pformal_noref(Tipo,id)):
    vincula (Tipo)
```

```
if contiene (ts, id) then
        error
    else
        inserta (ts, id, $)
    end if
vincula(si_preales(LPReal)):
    vincula (LPReal)
vincula(no_preales()): noop
vincula (muchas_exp(LPReal,Exp)):
    vincula (LPReal)
    vincula (Exp)
vincula (una_exp(Exp)):
    vincula (Exp)
vincula(inst_eval(Exp)):
    vincula (Exp)
vincula(inst_if(Exp, Blo)):
    vincula (Exp)
    vincula (Blo)
vincula (inst_else (Exp, Blo1, Blo2)):
    vincula (Exp)
    vincula (Blo1)
    vincula (Blo2)
vincula (inst while (Exp, Blo)):
    vincula (Exp)
    vincula (Blo)
vincula (inst_new(Exp)):
    vincula (Exp)
vincula (inst_delete(Exp)):
    vincula (Exp)
vincula(inst_read(Exp)):
    vincula (Exp)
vincula(inst_write(Exp)):
    vincula (Exp)
vincula (inst_call(id, PReales)):
    $.vinculo = vinculoDe(ts, Id)
    if $.vinculo == false then
        error
    end if
    vincula (PReales)
vincula(inst_nl()): noop
vincula (inst_blo (Blo)):
    vincula (Blo)
vincula (exp_asig (Opnd0, Opnd1)):
    vincula (Opnd0)
```

```
vincula (Opnd1)
vincula (exp_menor(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_menIgual(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula (exp_mayor (Opnd0, Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_mayIgual(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_igual(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_dist(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula (exp_sum(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula (exp resta (Opnd0, Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula (exp_mult(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_div(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_mod(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula (exp_and(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_or(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_menos(Exp)):
    vincula (Exp)
vincula (exp_not(Exp)):
    vincula (Exp)
```

```
vincula(inst_index(Opnd0,Opnd1)):
    vincula (Opnd0)
    vincula (Opnd1)
vincula(exp_reg(Exp,id)):
    vincula (Exp)
    $.vinculo = vinculoDe(ts, Id)
    if \$.vinculo == false then
        error
    end if
vincula (exp_ind(Exp)):
    vincula (Exp)
vincula(exp_true()): noop
vincula(exp_false()): noop
vincula(exp_litEnt(litEnt)): noop
vincula(exp_litReal(litReal)): noop
vincula(exp_litCad(litCad)): noop
vincula(exp_iden(id)):
    $.vinculo = vinculoDe(ts, Id)
    if \$.vinculo == false then
        error
    end if
vincula(exp_null()): noop
```

Índice de figuras