

```

Designator↑item = (. Item item; .)
  ident↑t          (. item = new Item(Tab.find(t.string));
  [ "." ident↑t    (. if (item.type.kind == Struct.Class) {
                    Code.load(item);
                    o = Tab.findField(t.string, item.type);
                    item.type = o.type;
                    item.adr = o.adr;
                    } else SemError(...); .)
                    item.kind = Item.Fld;
  | "["           (. Code.load(item); .)
  Expr↑x "]"     (. if (item.type.kind == Struct.Arr) {
                    if (x.type != Tab.intType) SemError(...);
                    Code.load(x);
                    item.type = item.type.elemType;
                    } else SemError(...); .)
                    item.kind = Item.Elem;
  ]
.
Factor↑item =      (. Item item; .)
  number↑t          (. item = new Item(Item.Con, la.val,
                    Tab.intType);
  | Designator↑item
.
Term↑x =
  Factor↑x
  { "*"            (. Code.load(x); .)
  Factor↑y        (. Code.load(y);
                    if (x.type != Tab.intType &&
                        y.type != Tab.intType) SemErr(...);
                    Code.put(Code.mul);
                    // x.kind = Item.Stack; // is already set
  }
.
Expr↑x =
  Term↑x
  { "+"           (. Code.load(x); .)
  Term ↑y        (. Code.load(y);
                    if (x.type != Tab.intType &&
                        y.type != Tab.intType) SemErr(...);
                    Code.put(Code.add);
                    // x.kind = Item.Stack; // is already set
  }
.
Assignment =
  Designator↑x
  "=" Expr↑y     (. if (y.type.assignableTo(x.type))
                    Code.assign(x, y);
                    else SemError(...); .)
.

```