Selection

```
selector(struct item_t* item) {
 struct object_t* object;
 struct item_t* indexItem;
 while ((symbol == ARROW) | | (symbol == LBRAK))
  if (symbol == ARROW) {
   getSymbol();
   if (symbol == IDENTIFIER) {
    object = findObject(item->type->fields, identifier);
    if (object != NULL)
     field(item, object); 

divipound; hoold and munonitis

else

error("unknown field: " identifier):
    else
     error("unknown field: ", identifier);
    getSymbol();
   } else
    error("identifier expected");
  } else if (symbol == LBRAK) {
   getSymbol();
   indexItem = malloc(sizeof(struct item_t));
   expression(indexItem);
   index(item, indexItem); — divisermus array and
   if (symbol == RBRAK)
    getSymbol();
   else
    error("missing']");
> We need to remain in RET mode since item
may appear in left hand sich of assignment!
```

Field and Index

```
field(struct item_t* item, struct object_t* object) {
// unlike with Oberon loading is necessary here for dereferencing
                  - may be in VAR or REF mode
load(item);
item->mode = REF_MODE;
item->offset = object->offset;
item->type = object->type;
                                   Meord referma!
ref2Reg(struct item_t* item) {
item->mode = REG_MODE;
put(LDW, item->reg, item->reg, item->offset);
                (unlike from VAR mod)
item->offset = 0;
index(struct item_t* item, struct item_t* indexItem) {
 if (indexItem->mode == CONST_MODE) {
  // unlike with Oberon loading is necessary here for dereferencing
 load(item);
 item->mode = REF_MODE;
  item->offset = indexItem->value *(4;
 } else {
  load(indexItem);
 put(MULI, indexItem->reg, indexItem->reg,
,// unlike with Oberon loading is necessary here for dereferencing
 load(item);
                 -) whas # of ngishes and at the same frim
  item->mode = REF_MODE;
  put(ADD, item->reg, item->reg, indexItem->reg);
 releaseRegister(indexItem->reg);
                                    > mxt are examples!
item->type = item->type->base;
}
```