

Pass 2:

```
begin
  read first input line {from intermediate file}
  if OPCODE = 'START' then
    begin
      write listing line
      read next input line
    end {if START}
  write Header record to object program
  initialize first Text record
  while OPCODE ≠ 'END' do
    begin
      if this is not a comment line then
        begin
          search OPTAB for OPCODE
          if found then
            begin
              if there is a symbol in OPERAND field then
                begin
                  search SYMTAB for OPERAND
                  if found then
                    store symbol value as operand address
                  else
                    begin
                      store 0 as operand address
                      set error flag (undefined symbol)
                    end
                  end {if symbol}
                else
                  store 0 as operand address
                  assemble the object code instruction
                end {if opcode found}
              else if OPCODE = 'BYTE' or 'WORD' then
                convert constant to object code
              if object code will not fit into the current Text record then
                begin
                  write Text record to object program
                  initialize new Text record
                end
              add object code to Text record
            end {if not comment}
          write listing line
          read next input line
        end {while not END}
      write last Text record to object program
      write End record to object program
      write last listing line
    end {Pass 2}
```