

# **Engineering a Compiler**

## **2nd Edition**

### **Chapter 5**

## **Intermediate Representations**

Figure 5.1

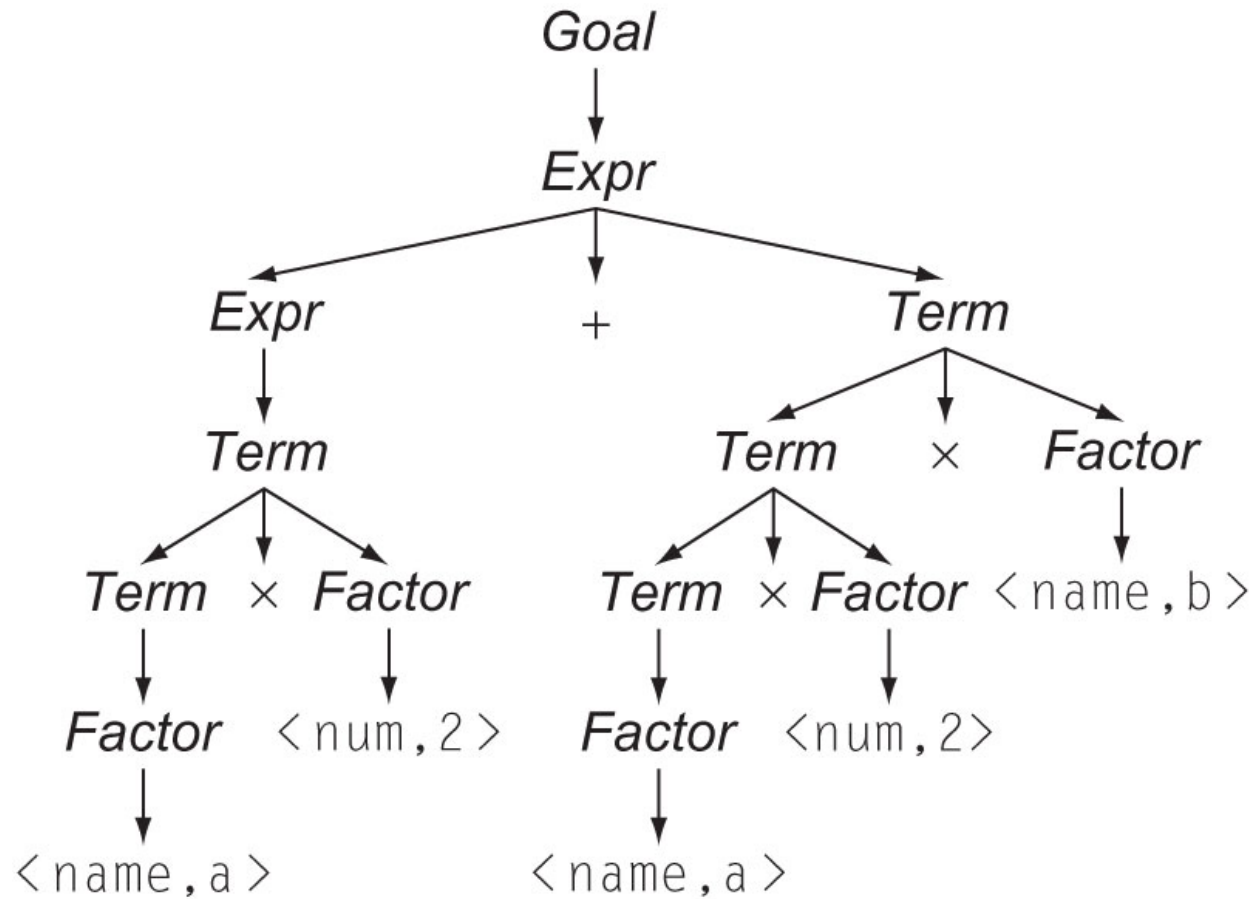


Figure 5.2

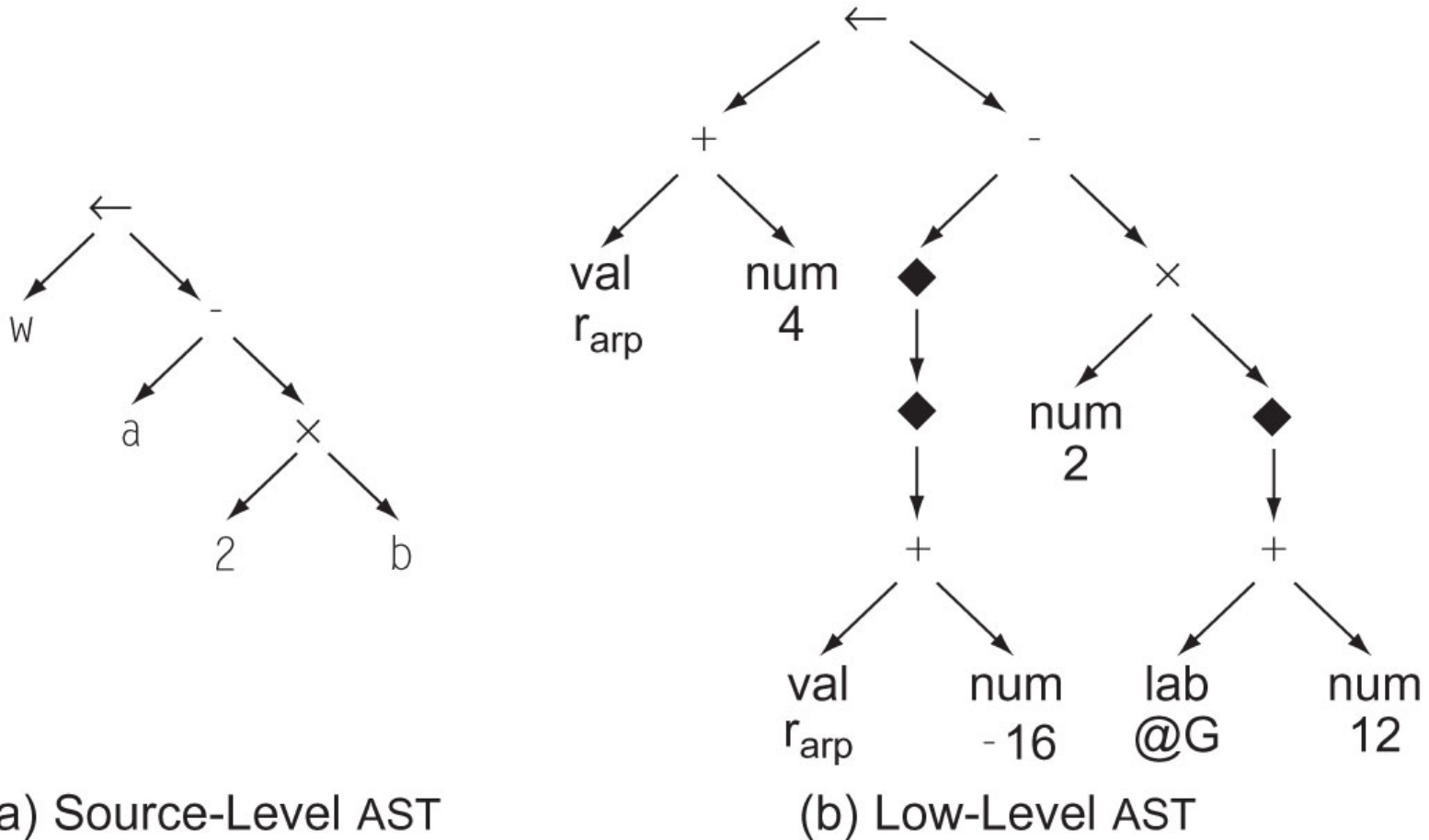


Figure 5.3

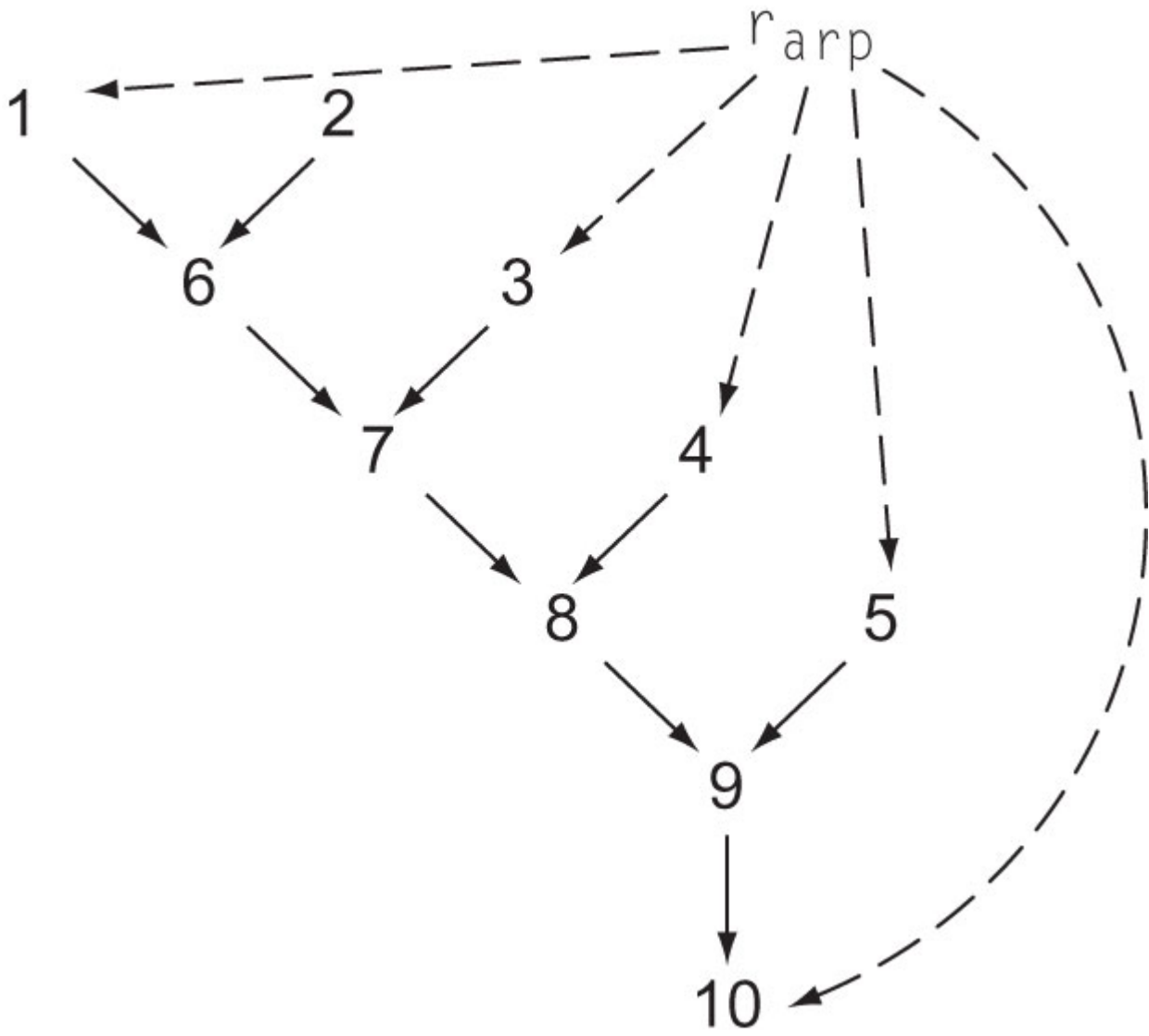


Figure 5.4

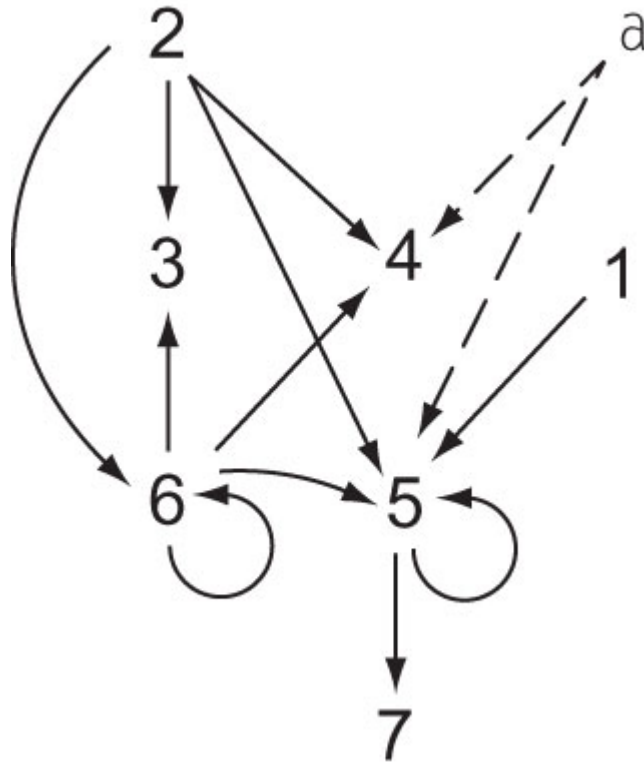


Figure 5.5

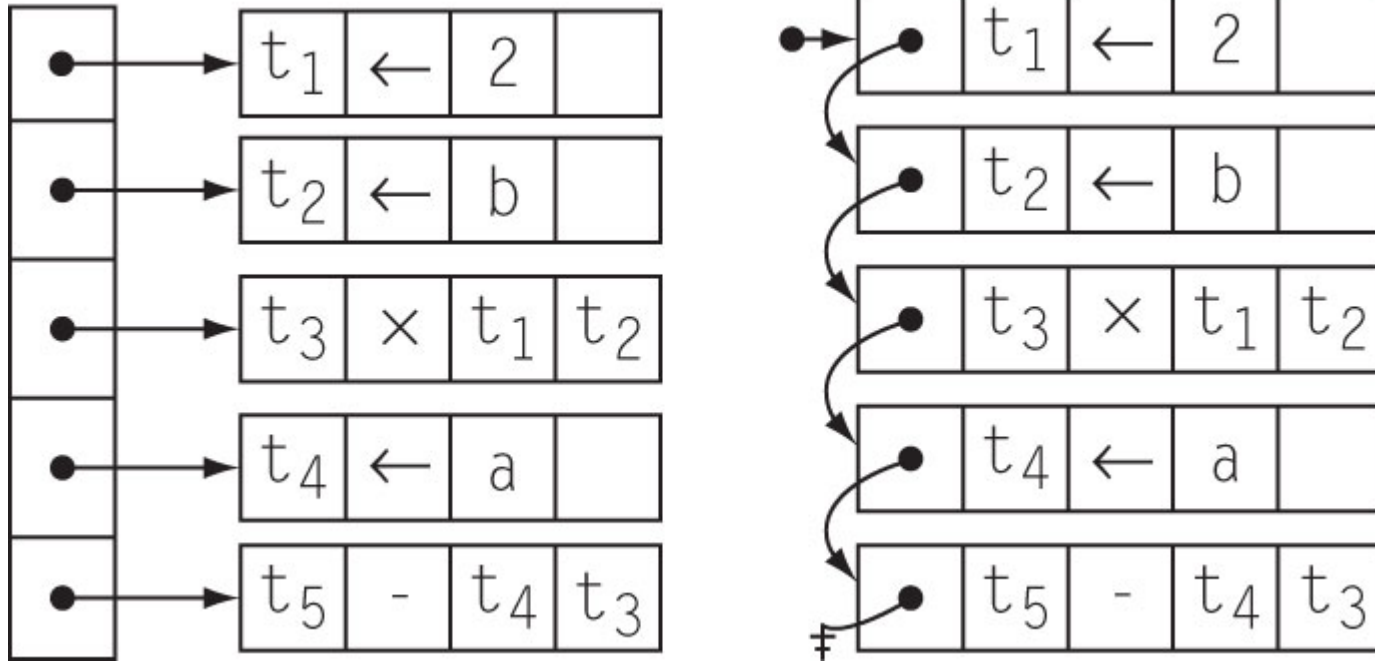


Figure 5.8

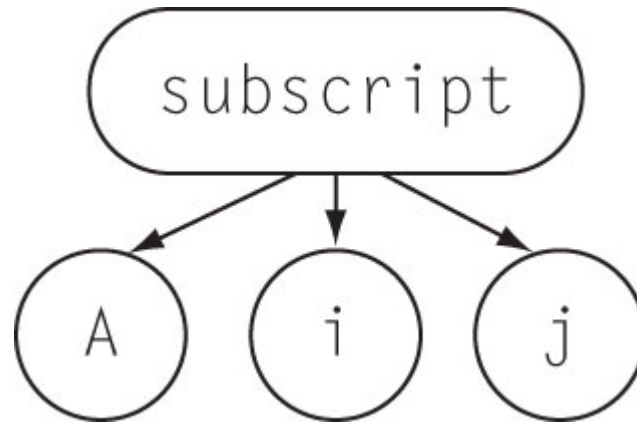


Figure 5.11

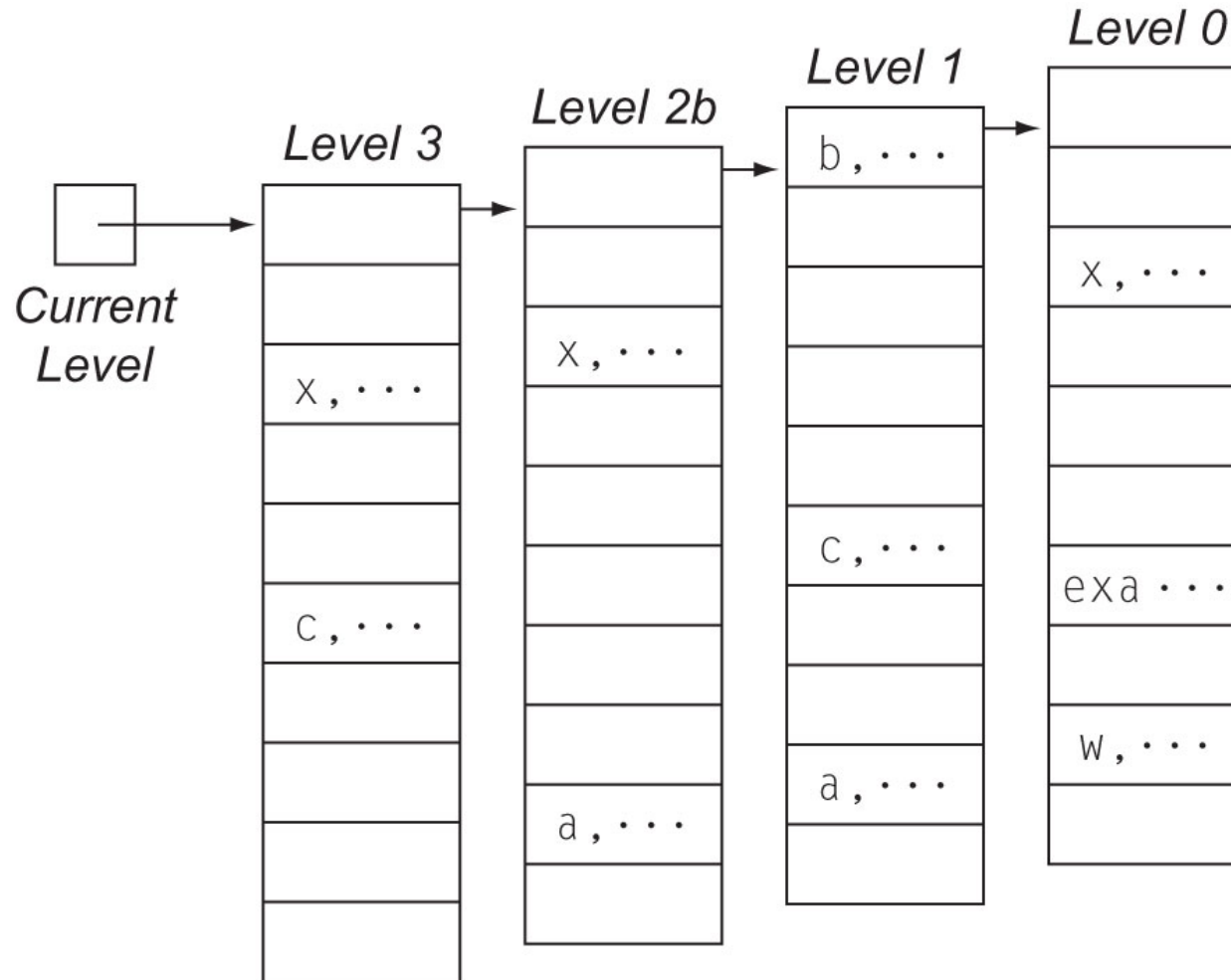
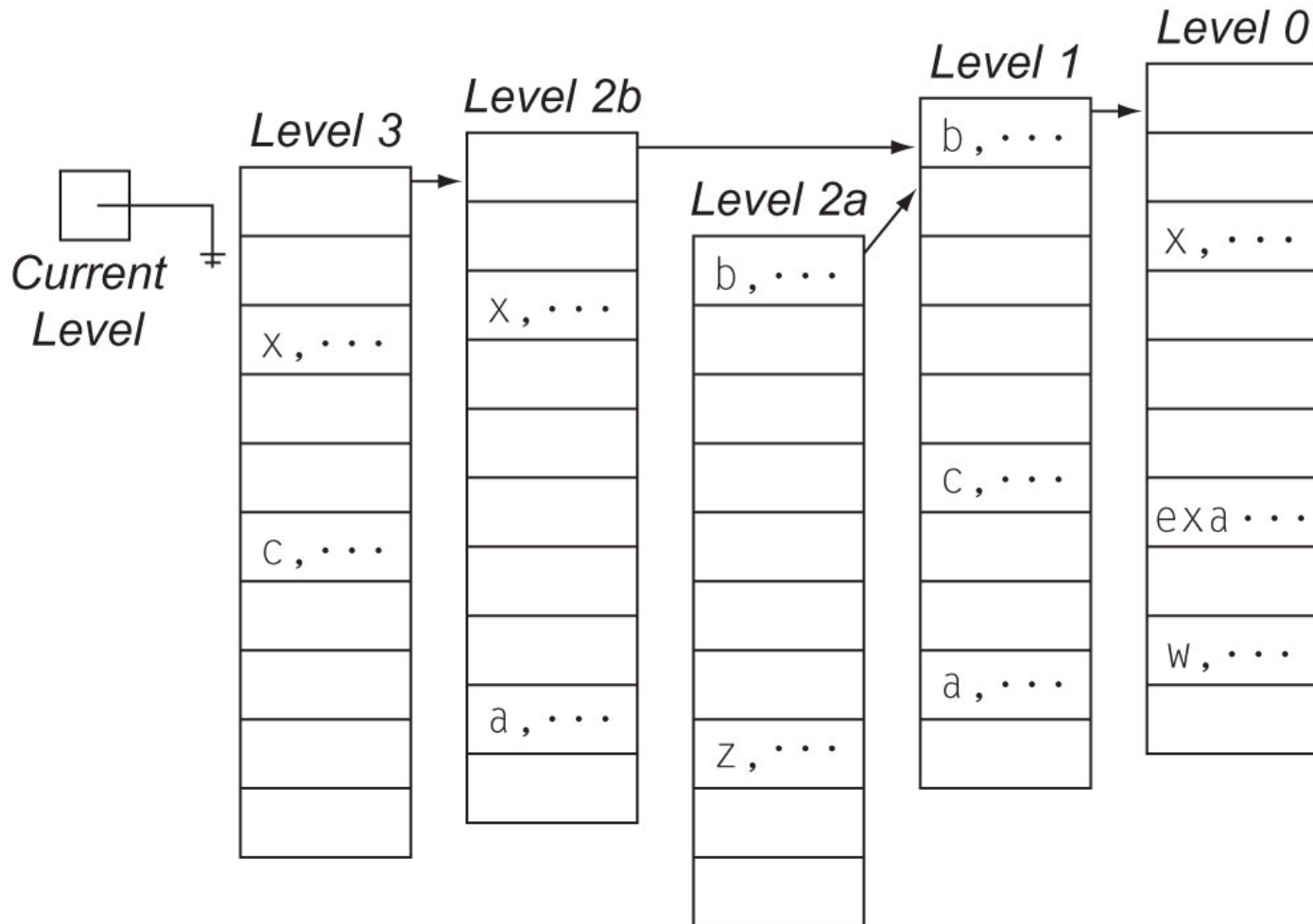
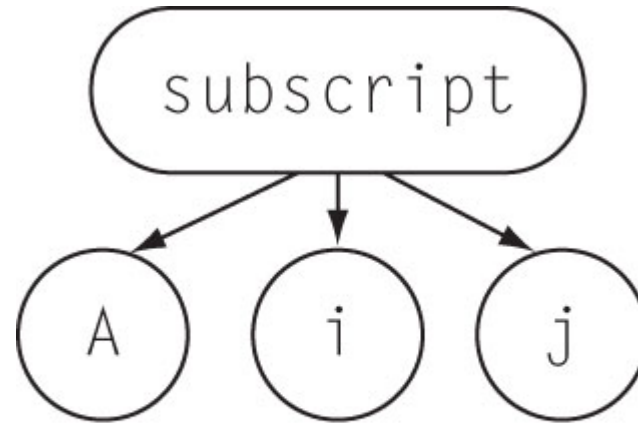




Figure 5.12

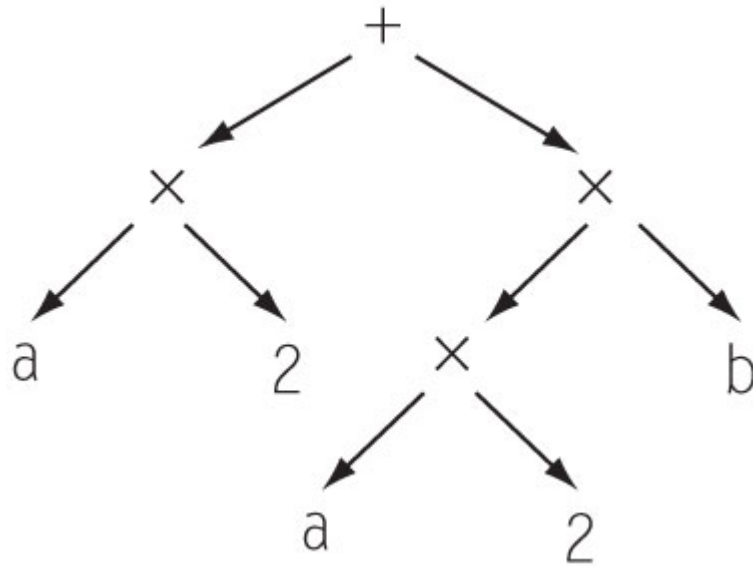


# Un - Figure 5.1

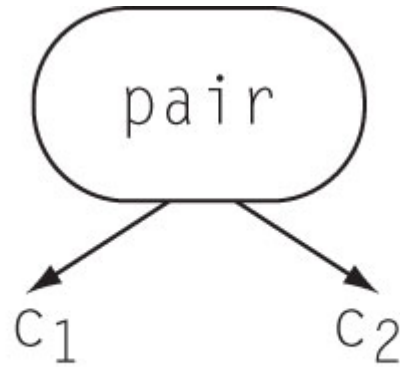


Source-Level Tree

## Un - Figure 5.2

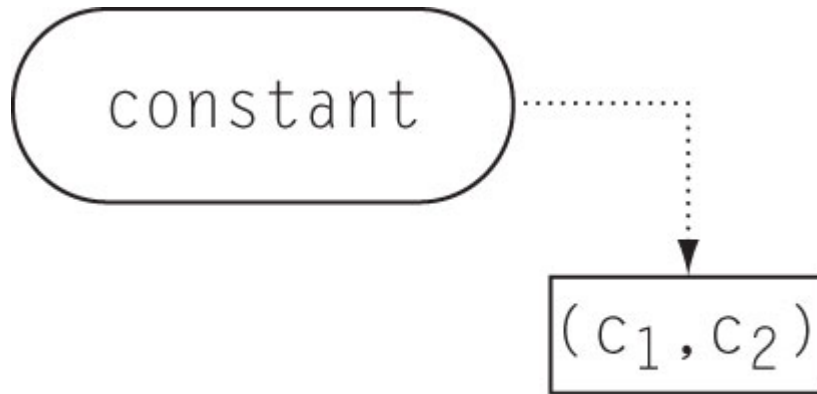


## Un - Figure 5.3a



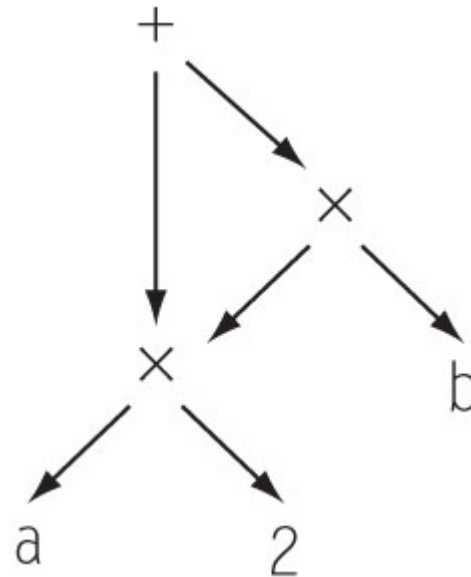
AST Designed for Editing

## Un - Figure 5.3b



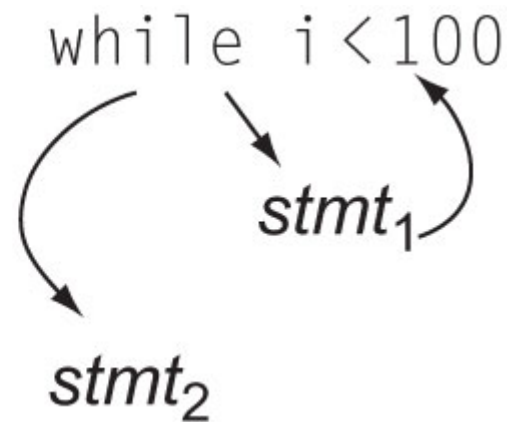
AST for Compiling

# Un - Figure 5.4



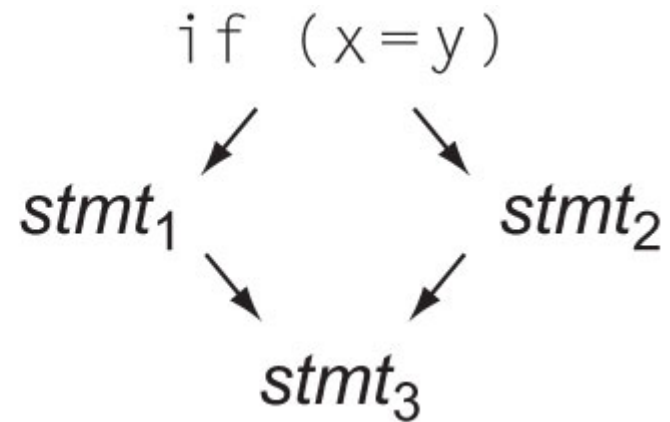
## Un - Figure 5.5

```
while(i < 100)
  begin
    stmt1
  end
stmt2
```



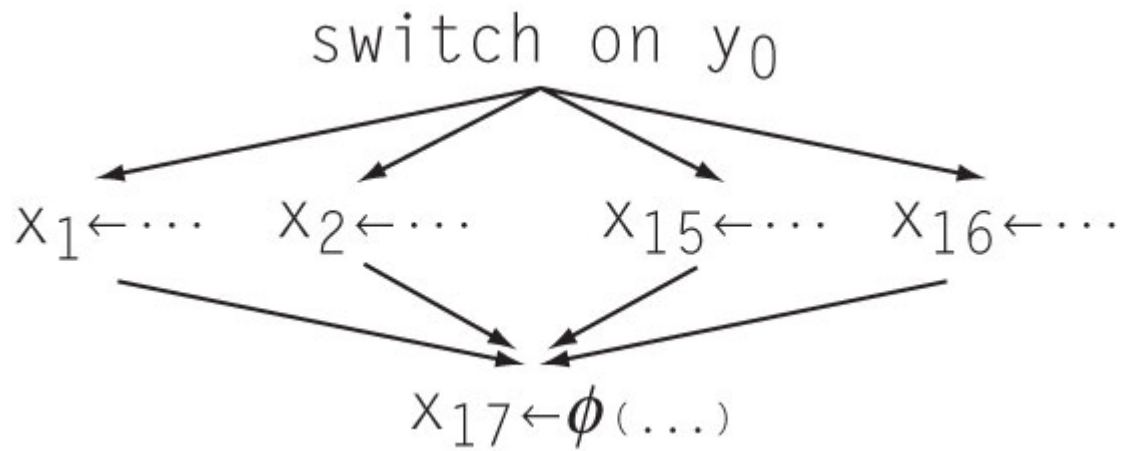
## Un - Figure 5.6

```
if (x=y)  
  then stmt1  
  else stmt2  
stmt3
```





## Un - Figure 5.7



## Un - Figure 5.8

