

Modern Compiler Implementation in C

©1998 by [Andrew W. Appel](http://www.cs.princeton.edu/~appel/modern/c/errata99.html)

Errors in the first edition, 1999 printing:

This printing may be identified by the line "Reprinted with corrections, 1999" on page iv.

Page 13. 11th line from bottom, missing semicolon before close brace; should be:

```
struct table {string id; int value; Table_ tail;};
```

Page 54. After the sentence, "The resulting productions will not pose a problem for a predictive parser" add:

Although the grammar is still ambiguous -- the parsing table has two entries for the same slot -- we can resolve the ambiguity by using the "else S" action.

Page 55. 13th line from bottom: `TIMES` should not be in `Tprime_follow`.

Page 65. First line of left-hand box: change ampersand (&) to \$.

Page 78. Lines 11-12 should read,

3. Discard input symbols (if necessary) until a lookahead is reached that has a non-error action in the current state.

Page 99. The Tiger program shown is actually illegal, since `g` is declared to return no value but its body returns the value `f()`.

Page 115.

6th line after figure, `"UNIT"` should be `"Void"`.

Last line, delete the word `struct`.

Page 138. Table 6.4. The MIPS column of the table uses registers `r2`, `r4`, `r5` for passing parameters. The use of `r2` for the "zeroth parameter" is consistent with the MIPS convention of passing the static link in `r2`; the argument x_1 , by this point in the compilation, is really the static link.

Page 179. 10th line from bottom, change "whether two expressions commute" to "whether a statement commutes with an expression".

Page 222. Table 10.5 in the 4th iteration, the *out* set for statement 3 is *c*, when it should be *b*.

Page 242. Assignment statements on line 19 should say,

```
t:=M[bloc]; M[aloc]:=t.
```

Page 244. Figure 11.7, captions (a) and (b) are missing.

Page 246. Last sentence, swap "afterward" and "beforehand".

Page 249. Delete last bullet item entirely ("When *u* is coalesced ...").

Page 255. Line 8, change all three occurrences of "nodeMoves" to "moveList".
Insert new line, "EnableMoves(v)".

Page 277. Algorithm 13.5, after second line, insert:
mark *x*

Page 372. 8th line from bottom, delete the word "not".

Page 434. 11th line from bottom, change "block 1 and block 2" to "block 1 and block 3".

Page 435. FIGURE 19.3 (b), the assignment `c1 <- c1 + b2` should be `c1 <- c2 + b2`

Page 440. Line 2: "that are not dominated by" should be "that are not strictly dominated by"
Line 22: "if *n* does not dominate *w*" should be "if *n* does not dominate *w*, or if *n* = *w*"

Page 441. Algorithm 19.6, line 10 should read,
if *a* not in $A_{\text{phi}}[Y]$

Algorithm 19.6, line 14 should read,
 $A_{\text{phi}}[Y] \leftarrow A_{\text{phi}}[Y] \cup \{a\}.$

Page 453. Line 2, first occurrence of i should be i_j

Page 456. Line 6, change "10" to "1".

Page 495. Exercise 20.2g, "Run Algorithm *itermod*" should be "Run Algorithm 20.9".

Page 525. 4th line from bottom, change both occurrences of "integer" to "int".