Errata for *Literate Programming*

(last updated 31 December 2002)

Most of the corrections below were made in the third printing; all of them except those marked with an asterisk (*) were made in the fourth printing.

***Page v,** line 2 from the bottom

Sons Ltd. $\rightsquigarrow$ Sons, Ltd.

***Page 2,** line 13

When *Communications* . . . 1959 $\rightsquigarrow$ Shortly after *Communications of the ACM* began publication in 1958

Page 9, line 6

when in $\rightsquigarrow$ when

***Page 12,** line 11 from the bottom

craftman's work $\rightsquigarrow$ craftsman's work

***Page 14,** bottom line

ming." $\rightsquigarrow$ ming,"

***Page 15,** line 19

119-150 $\rightsquigarrow$ 119–150

***Page 26,** line 17 from the bottom

while $A[i] \neq x$ do $\rightsquigarrow$ **while** $A[i] \neq x$ **do**

***Page 32,** line 10 from the bottom

$i := i - 1 \rightsquigarrow i := i - 1;$

***Page 36,** line 15

PL360 [96] $\rightsquigarrow$ PL360 [96])

Page 38, line 16 from the bottom

Bohm $\rightsquigarrow$ Böhm

***Page 40,** line 11

$A[j] := x; \rightsquigarrow A[j] := x;\ L[j] := 0;\ R[j] := 0;\ j := j + 1;$

Page 41, line 10 from the bottom

$\langle\,\text{situation}\,\rangle_n; \rightsquigarrow \langle\,\text{situation}\,\rangle_n$:

***Page 42,** lines 10 and 12 from the bottom

$i := L[i] \rightsquigarrow i := L[i];$ $\qquad$ $i := R[i] \rightsquigarrow i := R[i];$

***Page 43,** line 1

$5c \rightsquigarrow$ 5c

***Page 43,** lines 22 and 24

goto $\rightsquigarrow$ **go to**

Page 44, line 15 from the bottom

$\mathit{absent}; \rightsquigarrow \mathit{absent}$:

***Page 45,** lines 11 and 12 from the bottom

print $\rightsquigarrow$ *print*

***Page 47,** line 21

do S $\rightsquigarrow$ **do** S $\qquad$ **until** B $\rightsquigarrow$ **until** B

*__Page 47,__ line 14 from the bottom

If S is $\leadsto$ If S is

Page 48, line 13

[94] $\leadsto$ [95]

Page 49, line 10 from the bottom

$\{Q \wedge B\}$ $\leadsto$ $\{Q \wedge \overline{B}\}$

*__Page 50,__ line 7

repeat: $\leadsto$ **repeat**;

Page 51, lines 6 and 7 from the bottom

recursion wasn't ... table of contents. $\leadsto$ the recursion chapter wasn't Chapter 3, since it belongs conceptually near the very beginning.

*__Page 52,__ line 1

on the Example 6 $\leadsto$ on Example 6

Page 60, line 17

$A[j]$**then** $\leadsto$ $A[j]$ **then**

*__Page 60,__ line 19

$i := i + 1$ $\leadsto$ $i := i + 1;$

Page 60, line 9 from the bottom

repeat go $\leadsto$ **repeat**; **go**

Page 64, bottom line

$A[j] < v$ $\leadsto$ $A[j] > v$

*__Page 69,__ line 14

if tests $\leadsto$ **if** tests

*__Page 72,__ line 15 from the bottom

[12]. $\leadsto$ [12].)

*__Page 81,__ line 2 from the bottom

`FOUND`; $\leadsto$ `FOUND;`

*__Page 82,__ line 17

GOTO' $\leadsto$ GOTO

Page 83, line 3

Bohm $\leadsto$ Böhm

*__Page 83,__ line 8 from the bottom

humble programmer,' $\leadsto$ humble programmer,"

*__Page 83,__ line 5 from the bottom

[Ed]. $\leadsto$ [Ed.]

*__Page 85,__ line 20

Practice and Experience $\leadsto$ *Practice & Experience*

*__Page 85,__ line 8 from the bottom

A review of 'Structured Programming', $\leadsto$ "A review of *Structured Programming*,"

***Page 86,** lines 14 and 15

Journal of the ACM **27** (1980), 123–127. $\leadsto$ *Journal of the ACM* **27** (1980), 123–127.]

***Page 86,** line 21

site de Liege, Service Informatique, Liege $\leadsto$ sité de Liège, Service d'Informatique, Liège

***Page 87,** bottom line

YorkSpringer $\leadsto$ York: Springer

***Page 88,** line 5

Practice and Experience $\leadsto$ *Practice & Experience*

***Page 89,** line 7

14, 4 $\leadsto$ **14**,4

Page 89, line 13

Progamming $\leadsto$ Programming

***Page 91,** line 6 from the bottom

"i precedes j". $\leadsto$ "i precedes j."

***Page 95,** lines 16 and following

all these lines (except the line 8 from the bottom) should be indented one quad less

***Page 97,** line 15

*ACM***14** $\leadsto$ *ACM* **14**

***Page 101,** line 13

ADA $\leadsto$ Ada

Page 109, line 9

$\sqrt{k}/\ln k \leadsto \sqrt{k/\ln k}$

Page 127, line 12

beings $\leadsto$ begins

Page 132, line 23

gave a `DOC` $\leadsto$ gave `DOC`

***Page 135,** lines 8 and 9 from the bottom

Liege, Service D'informatique (December, 1973). $\leadsto$ Liège, Service d'Informatique (December, 1973), 135 pp.

***Page 135,** line 6 from the bottom

(Eds.) $\leadsto$ [Eds.]

***Page 144,** line 10 of section 1

It's $\leadsto$ (It works also when $M = N$; but the average running time is of order $M + N(H_N - H_{N-M})$, which is linear in M for $M \le \frac{1}{2}N$ but not when M approaches N. Users who want $M > \frac{1}{2}N$ should generate the complementary set of $N - M$ integers.) It's

Page 145, line 7

populatation $\leadsto$ population

Page 149, additional closing paragraph

In a subsequent "Programming Pearl," David Gries contributed his own version of the sampling program above, with independent proofs of the properties of ordered hashing for which §9 had simply given a brief reference to the literature. See *Communications of the ACM* **30** (April 1987), 284–289.

Page 151, line 4
[Chapter 8] $\leadsto$ *[Chapter 5]*

***Page 157,** line 10 from the bottom
pu-ter $\leadsto$ *put-*er

Page 160, line 10 from the bottom
$\approx .61803\mathit{trie\_size} \leadsto \approx .61803(\mathit{trie\_size} - 52)$

***Page 204,** and also pages 214, 216, 218, 224, 262
[Adjust the spacing so that the top lines are aligned properly.]

***Page 231,** line 13
$p_1 \ldots p_l \leadsto p_1 \ldots p_{l-1}$

Page 237, line 22
idea idea $\leadsto$ idea

Page 240, line 18
inconsistences $\leadsto$ inconsistencies

***Page 249,** line 17
on February 1, $\leadsto$ early in February,

Page 258, restore a missing line after Figure 1
Then TEX suddenly had more than one user, and different kinds of

Page 271, line 12
thesis [11] $\leadsto$ thesis

***Page 287,** line 17
form. $\leadsto$ form.[4]

***Page 287,** new bottom line
[4] (Footnote added March 1999) See *Digital Typography*, Chapter 34.

***Page 291,** line 2
1986) $\leadsto$ 1986),

***Page 294,** line 2
METAFONT debugging $\leadsto$ *debugging*

***Page 310,** entry 409
`vfil` $\leadsto$ `\vfil`

***Page 310,** entry 418
`topmark` $\leadsto$ `\topmark`

***Page 311,** entry 434
1352. $\leadsto$ 1352

Page 316, entry X102
1078 $\leadsto$ §1078 (and it belongs in the next-to-last column)

Page 316, entry X105
shawing $\leadsto$ showing

***Page 321,** entry X332
`sprint_cs` $\leadsto$ *sprint_cs*

***Page 341,** line 11

135–137 $\leadsto$ 134–137

***Page 349,** bad hyphenation on lines 9 and 10

Praktis- che $\leadsto$ Prak- tische

***Page 353,** line 5 from the bottom

(1965) $\leadsto$ (1985)

***Page 354,** line 10 from the bottom

Oppermann), $\leadsto$ Oppermann),”

***Page 355,** line 15

pu-ter $\leadsto$ *put-er*

Page 357, after line 2

Ben Ross Schneider Jr., “Programs as essays,” *Datamation* **30**,7 (May 15, 1984), 162–168.

Page 362, left column

Gries, David Joseph, 149, 350.

***Page 362,** Hoare entry

82, 83–84 $\leadsto$ 82–84

***Page 363,** right column

Lavagnino, John David, 338.
Leeuwen, Marcus Aurelius Augustinus van, 293, 338–339.
Levy, Silvio Vieira Ferreira, xii, 337, 341, 355.
LISP, 55, 101, 356.

Page 363, entry for linking

two way $\leadsto$ two-way

***Page 365,** left column

Perlis, Alan Jay, 1, 14, 24.

Page 366, left column

Schneider, Ben Ross, Jr., 357.

Page 367, left column

Sullivan, Wayne Garrett, 293, 337–339.

Page 367, left column

Thimbleby, Harold William, 133, 136, 355, 357.

Page 368, left column, Winkler entry

v $\leadsto$ vii