

variable initialization, 217
 while, 186, 215–216
 lowercase text, 13, 33
 low-level programming languages, reasons
 to use, 10
 ls command, 350
 Lvalue errors, math, 314

• M •

Mac
 compiler, 361
 folders, 362
 Mac OS X
 compiler, 360
 folders, 362
 machine language, 10
 macros, 303–304
 MADLIB1.C
 comment styles, 58–59
 comments and, 56–57
 magic pellets problem, order of
 precedence, 144–145
 main() function
 int keyword, 79
 introduction, 30
 returning values and, 287–288
 math
 exponents, 314–315
 functions, 319–320
 if command and, 148
 imaginary number, 319
 incrementation, 137–139
 Lvalue errors, 314
 order of precedence, 314
 pow() function, 315
 square root operations, 314, 317–319
 math library, links, 317
 mathematical operators, 86–88
 + (addition), 87, 134
 / (division), 87, 134
 * (multiplication), 87, 134
 order of precedence, 141–146
 shortcuts, 212
 - (subtraction), 87, 134
 values, 134
 variables, 134
 MATH.H header, pow() function, 315
 MDAS mnemonic, 142–143
 METHUS1.C, 79–80
 METHUS2.C, 83–85
 METHUS3.C, 85–86
 METHUS4.C, 88–90

METHUS5.C, 90–92
 MiniGW compiler, 360
 mnemonic for order of precedence,
 142–143, 335
 modulus (%)
 introduction, 333
 math operator, 314
 MSVC (Microsoft Visual C++) compiler, 360
 multiplication symbol (*), 87
 My Dear Mother's Aunt Sally mnemonic,
 142–143

• N •

\n (newline character)
 printf() escape sequence, 306
 RULES.C, 36–37
 naming
 functions, 263–264
 variables, 95
 variables, calling functions and, 279–280
 variables, guidelines, 95–96
 variables, tips for, 351
 negative numbers
 E notation, 117
 floating-point, 112
 integers, 111
 numeric data types, 111–113
 nested comments, problems with, 62–63
 nested loops
 break keyword, 235–237
 continue keyword, 235–236, 237–238
 definition, 231
 for loops, 233
 GRID.C, 234–235
 while loops, 233
 newline character, 31, 71
 Onn, printf() escape sequence, 307
 not equal to (!=) comparison operator,
 if statement, 152
 NULL character, strings, 341
 null pointer assignment error, 27
 numbers
 absolute value, 320
 ASCII characters, 122
 checking in do-while loops, 229–231
 converting string to integer values, 81–82
 floating-point *versus* integers, 110
 precision, 118
 random, 325–326
 scientific notation, 115
 strings and, 82
 variable naming and, 96