
contents

PREFACE	v	
CHAPTER 1	INTRODUCTION	2
Objectives		2
Introduction to Computers and BASIC		2
A Payroll Problem		8
Entering and Executing a Program		15
Additional Commands: LIST and BYE (or OFF)		23
Summary		24
CHAPTER 2	WRITING COMPLETE PROGRAMS	27
Objectives		28
A Payroll Problem with Many Employees		28
String Variables		39
More Complicated Expressions		42
More About the PRINT Statement		48
Additional Commands		56
Summary		58
CHAPTER 3	MAKING DECISIONS	61
Objectives		62
A Sales Problem with a Decision		62
More Complicated Conditions		74
More on the PRINT Statement		87
The INPUT Statement		95

Sorting	99
Summary	104
CHAPTER 4 LOOPS	107
Objectives	108
A Payroll Problem with Totals	108
Calculating the Average Test Score	115
Finding the Highest Sales	120
How to Become a Millionaire	124
A Sales Problem with Subtotals	128
Summary	139
CHAPTER 5 COUNTER-CONTROLLED LOOPS	141
Objectives	142
A Simple Counter-controlled Loop	142
Nested FOR-NEXT Loops	163
Functions	169
Summary	176
CHAPTER 6 ARRAYS	177
Objectives	178
What is an Array?	178
Printing the Difference From the Average	185
The Bubble Sort	191
Searching an Array	202
Two-dimensional Arrays	218
Summary	224
CHAPTER 7 FILES	225
Objectives	226
Files	226
Elementary File Processing	228
Advanced File Processing	235
Deleting Selected Records	244
Adding Records	249
Updating Records	251
Summary	255

CHAPTER 8	STRINGS	257
Objectives		258
Elementary String Processing		258
The MID\$ function		265
Using String Functions		267
Concatenation		271
Text Editing		276
Making A Code		281
Summary		283
GLOSSARY		285
INDEX		289