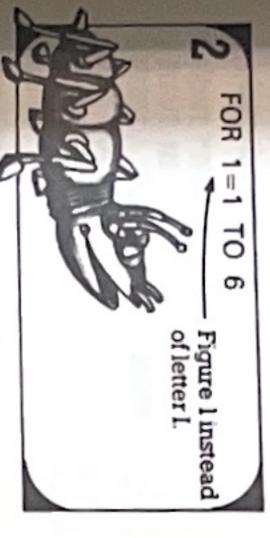
Programming tips

program which will not work. what causes them. The most likely programs, and a list of the most ups to help you write your own check through this list until you find bugs are listed first, so if you have a the reason On these two pages there are some ommon bugs you might get, and

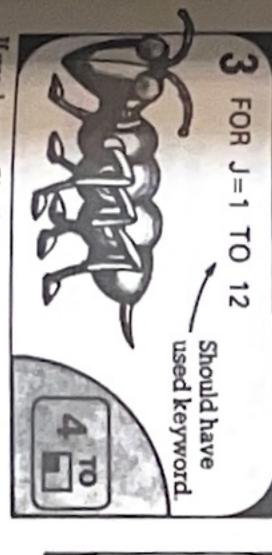
Finding bugs



computer will not recognize it. If you misspell one of these words the look for typing mistakes in BASIC words.



nght places Check Os and 0s and 1s and 1s to make are you have typed the right ones in the



DATA

ONE,

W O

THREE

Missing comma

PRINT

"SHOESTRING

Missing quotes

ter instead of pressing the key for that ou have not typed a word in letter by You have a Sinclair computer, make sure

data items. Check complicated lines

quotation marks, or the commas between

Make sure you have not left out any

which have lots of symbols especially

carefully.

10

Writing programs

building blocks of all programs. and making decisions. These are the simple instructions, repeating things can carry out three main activities: helps to remember that the computer When you are writing programs it

INSTRUCTIONS SIMPLE

PRINT Ę PLOT (X,Y) LET N=N+1 A=3\$

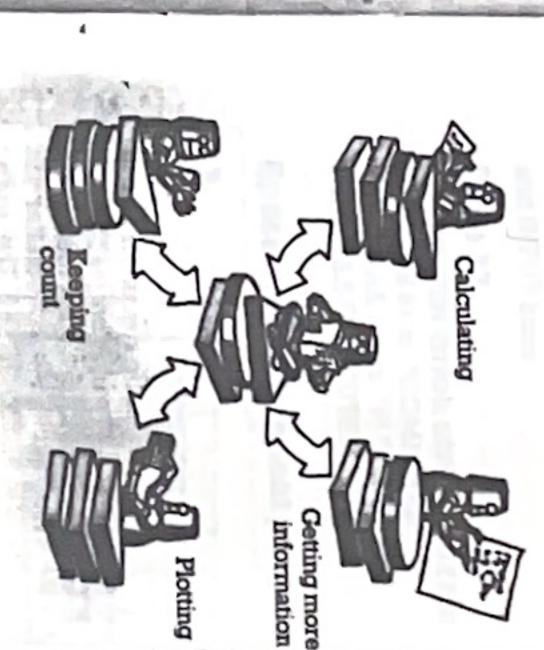
REPEATING THINGS

30 IFA< 10 THEN 20 LET A=1 FOR J=1 TO 6

GOTO 100

DECISIONS MAKING THEN PRINT A IF IS="HELLO" 日 X=Y THEN STOP

needs to do at each stage, then decide the computer to carry out these program, work out what the computer activities. When you are writing a which instructions you want to use. instructions you need in BASIC to tell This book has covered all the main



you know what it is for. through all the program. be tested by itself without running like this makes it much easier to find label each section with a REM line so any mistakes. Each section can usually Breaking up programs into sections Remember to

of a loop is missing. It may

This means the NEXT line

the state of the s

be because you typed the



needs one and CLS commands for the computer. computer a general graphics line if it Check, too, that you have given the Make sure you use the correct RND, PLOT

Error messages

in the computer's manual. Here are some of the most common messages you may get. message when there is a bug in the All computers print out some sort of



computer carries out the subroutines.

which controls when and how often the

instructions, decisions and repeats

of the program may be a simple set of

carry out each activity. The central core

into lots of sections with subroutines to

program it is a good idea to divide it up

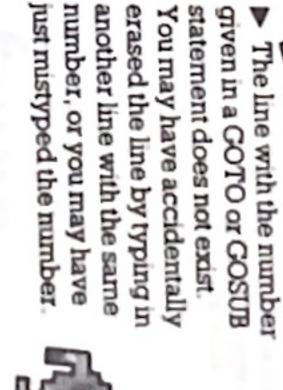
others. When you are writing a long

them may be neater and shorter than

ways to write a program and some of

There are usually several different

items, so the computer read them as one out a comma between computer to read in the because you have missed DATA lines. It may be enough data items for ■ This means there a: OW the not



5

ø

8

such



No such

variable

variable with a line suc computer. It usually me on a BBC or Sinclair before using it. LET C=0 or LET C="" you have not set up a ■ You may get this rep





even put a 1 instead of an I so the computer did not wrong variable name, or

recognize it

Last word

complicated lines again, you m Some bugs are very hard to find without even noticing what the h get them right the second time the bug, try typing in suspect or somewhere. If you really c program there must be a bug in if the computer will not run the