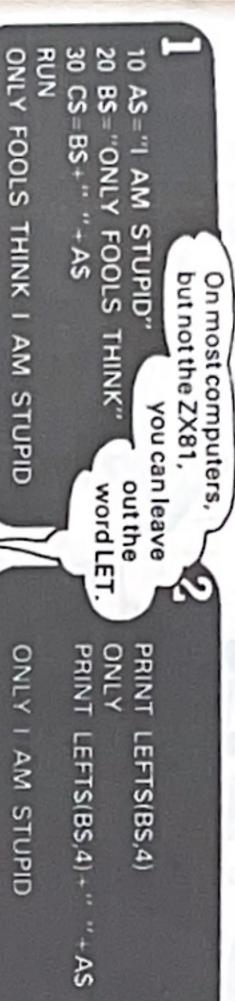
Doing things with words

BASIC see if it contains a particular word or letter. This is useful for checking the in other variables. Below you can find out how you do these things in various things with them. They can check the contents of a variable and Most computers can examine the words stored in variables and do rearrange the letters or words in a different order and add them to letters words input by someone using the program. Computers can also



of two variables like this You can add the contents marks to leave a space between quotation You need the space

variables, like this

You can also add parts of

8

ខ

NEXT

ᇹ

ၽ

NEXT

146

LET MS=CS+DS

8

PRINT MS

EN

뗭

first four letters from the left

LEFT\$(B\$,4) means take the

between the words

OHOLS

5,003

PRINT MIDSIBS,6,5

FOOLS

240

W PRINT RIGHTSIAS,6) STUPID

use RIGHTS with the name numbers of letters you want letters from the right you and punctuation too. count spaces counting letters, When you are

of the string and the

To tell the computer to use

10 KS="DING DON 20 PRINT LEN(KS) RUN "DING DONG"

IJ.

You can also find out the number of letters, spaces length of a string - the and symbols it contains. To for length do this you use LEN, short



Note for Sinclair users

many letters to take

and the second tells it how

Ķ letters numbers 61011. This means take

PRINT B\$(14

0

16)

STUPID

PRINT AS(6

5

=

MID\$, but you can tell the not use LEFT\$, RIGHT\$ and The Sinclair computers do you want as shown above. computer to take any letters

what is LEFT\$ (A\$,8)?

RIGHT\$ (A\$,10)?

MID\$ (A\$,5,8)?

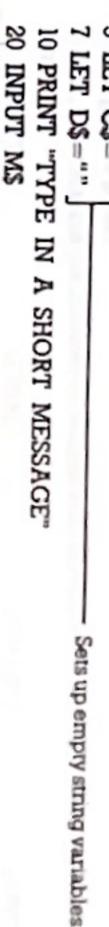
IF A\$="COMPUTER

BOOK"

Codemaker program

programs are used by intelligence services to write and crack codes. This program automatically puts words into code. Similar, but niuch more complex

paper, then work through the lines of the program carrying out the computer's tasks on your message and writing them down. The easiest way to understand this program is to write a secret message on a piece of



ଞ 8 PRINT "NOW TYPE IN A SECRET NUMBER BETWEEN 2 AND"; LEN(M\$)-1 LET AS=RIGHTS(MS,N) INPUT N

message munus I.

This means the length of your

70 Ę E FOR I=1 TO M\$= A\$+ B\$ B\$=LEFT\$(M\$, LEN(M\$)-N) the right of MS N (your secret number) letters from

letters from the left of M\$ (i.e. the rest The length of MS minus N number of

2 From I to the number of letters in your message going up in twos, i.e. 1, 3, 5, etc. Each time the I position I of MS and puts it in CS going up in twos, i.e. 1, 3, 5, etc. Each time the loop is repeated line 90 takes one letter from Replaces the letters in MS with AS+BS of the letters)

LET CS=CS+MID\$(MS, I, I) PRINT "CODED MESSAGE FOR J=2 TO LEN(MS) STEP 2 LET D\$=D\$+MID\$(M\$, J, 1) LEN(M\$) STEP Ę Replaces the letters in MS again. From 2 to the number of letters in your Works in the same way as the I loop. message, going up in twos, i.e. 4, 6, etc



the middle letters. The first

This tells the computer to take

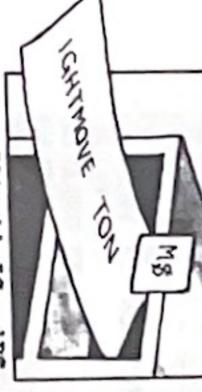
number tells it where to start

are stored in M\$ and N. secret number is 4. These "Move tonight" and your Suppose your message is

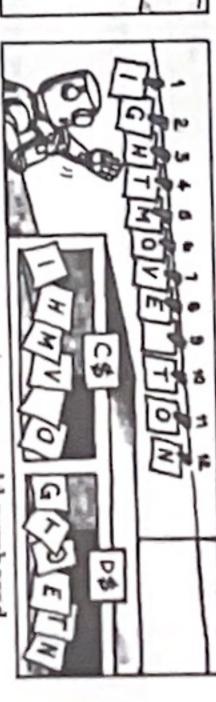


A CONSTRUCTION OF SERVICE STREET, SERVICE STRE

the right of the message and puts them in A\$. At line 60 it to divide the message. At line 50 it takes four letters from puts the rest of the letters in B\$ In lines 50 and 60 the computer uses your secret number



front. end of the message at the This puts the letters from the At line 70 it adds A\$ and B\$



repeats it puts an even numbered letter in D\$ (e.g. G, T, letter in CS (e.g. I, H, M, etc.). Each time the J loop Each time the I loop repeats it puts an odd-numbered O, etc.). Then it adds CS and D\$ to make the coded message