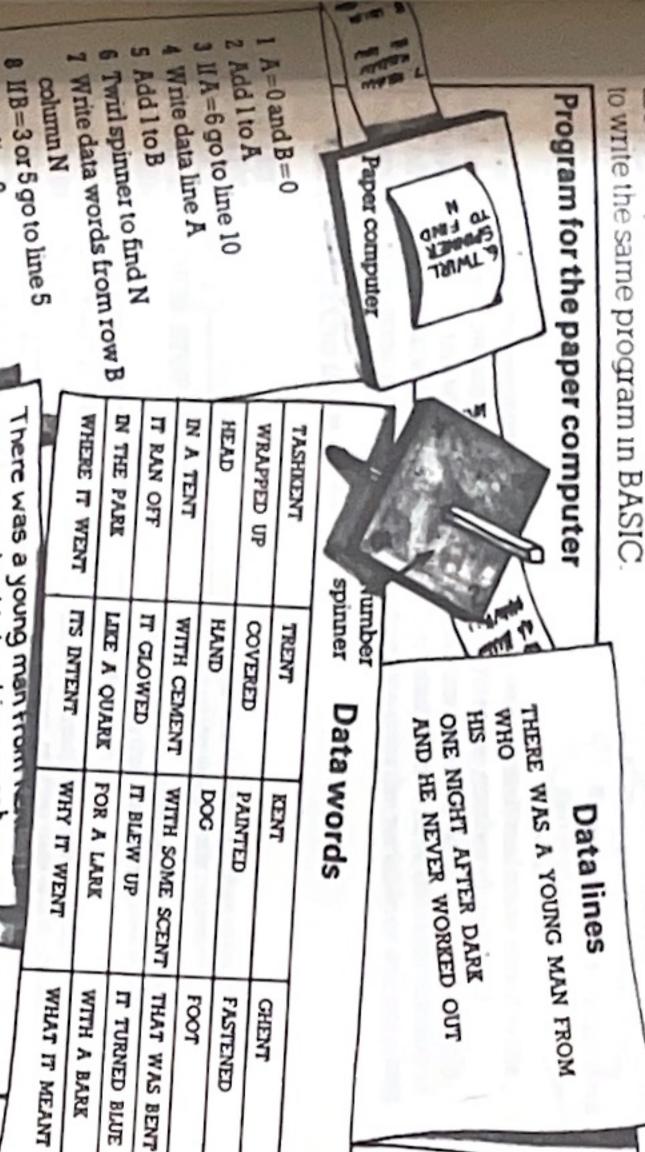
Funny poems program

used a simple version of this program. Here you can find out how o Computers. That book showed how to make a "paper computer" which The next few pages show you how to write a program which can compose ots of poems A version of this program first appeared in the Usborne Guide



computer. It looks a little like BASIC, but it This is the program for the paper would not work on a real computer. The stored" on pieces of paper and the words and phrases for the poem are

Go to line 2

Who wrapped up his head in cement

One night after dark

It turned blue in the park

There was a young man from

Stop

ever worked out where it went number spinner is a random number program tells you which to select. between one and four generator to give random numbers

Translating the program into BASIC

This won't work

	80 W	\$ 88 File	
T N=IN	rite data li	T A=A+	LET A=0
(RND(1)	Write data line A]	A CALCO	
*4+1)	7	T	
		đ	

Write data words from row B column N B=3 THEN GOTO 60

120 END 00 IF B=5 THEN COTO 60 GOTO 30

data line

difficult. The computer needs a way of mio BASIC, but lines 50 and 80 are more Most of the program is easy to translate

> Lines 50 and 80 are not in BASIC yet. Gives a random number between 1 and 4 data lines the computer has selected. Lines 30 and 40 keep count of the number of These lines set up empty variable spaces Line 60 keeps count of the number of data words. Lines 90 and 100 send it back to select another on a computer yet.

the poem. words which are needed for each line of storing and picking out the data lines and

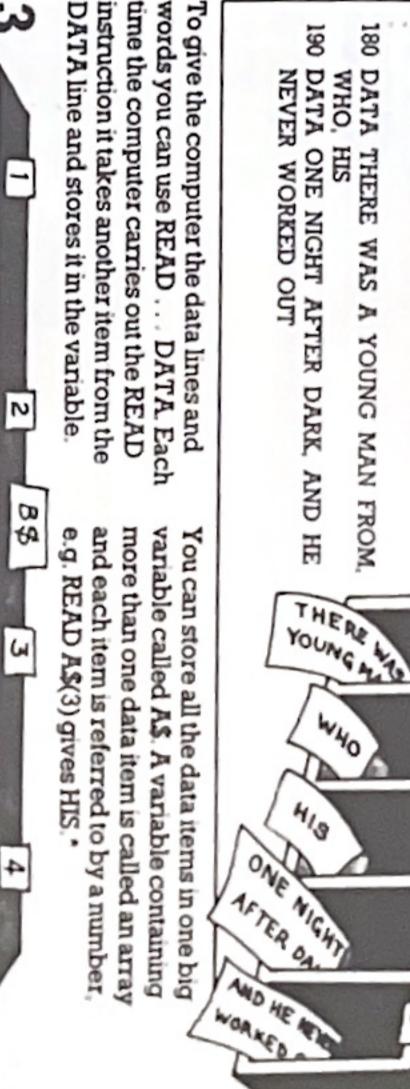
Giving the computer data

50 READ

(H

8 WHO. DATA THERE WAS A YOUNG MAN FROM,

NEVER WORKED OUT



words you can use READ ... DATA Each instruction it takes another item from the time the computer carries out the READ DATA line and stores it in the variable



dimensional array. Here, each data item is referred to by the number of the row and in a variable like this. It is called a twodata and you can store all the data words A variable can also hold several rows of

column it is in. So READ B\$(4,2) gives arrays, too, using a number variable FOR A LARK. You can store numbers in WITH CEMENT and READ B\$(6,3) gives e.g. N(5,7).

Line or a land to the first of the state of

Putting the data in the variables

NEXT READ FOR I=1 TO 7 FOR J=1 TO B\$(I, J) I is the row number number J is the column

DATA DATA

NEXT

DATA TASHKENT, TRENT, KENT, CHENT WRAPPED UP, COVERED, PAINTED, HEAD, HAND, DOG, FOOT FASTENED

PAINTE

you need to be able to alter the numbers in To read each data item into the variable 8 ᇹ DATA DATA DATA DATA IN A TENT, WITH CEMENT, WITH SOME SCENT, WHERE IT WENT, ITS INTENT, WHY IT WENT, WHAT IT MEANT IT RAN OFF, IT GLOWED, IT B IN THE PARK, LIKE A QUARK, IT BLEW UP, IT TURNED BLUE LRK, FOR A LARK, WITH A BARK THAT WAS BENT

and a J loop for the column number. Each once for each of the

above with an I loop for the row number loops. B\$ needs nested loops as shown brackets after READ. You can do this with

Sinclair. You can find out more about this over the page

*Sinclair computers deal with variables in a different way and this program will not run on a time the I loop is carried out the J loop is repeated four times columns in a row.