

26. Printer Wordgame

General Description

This is the user defined version of wordsquare. You may select the words that you wish to have hidden in the wordsquare and then the computer will generate the wordsquare and dump it to your printer. You may then photocopy it and print it. I run a request service for this at school and it satisfies the requests from other departments admirably. Of course this does presuppose that you have a printer. If not then you will have to save this program till you acquire one. You can always use the next program meanwhile. Note that the printer defaults to a serial Epson set at 9600 baud with line feed not activated. These printer settings are at lines 70, 80 and 90. If you have a parallel printer then change line 70 to *FX5,1 - you will have to decide if you wish to suppress any characters as in line 90. The BBC User guide helps here.

Details Description

Lines 10-172 Clear variables. Lines 70 to 90 sets up printer. (These values may be changed depending on what sort of printer is being used.) In this section of the program, the cursor is turned off and the cursor keys disabled. Procedure calls.

180-240 Save array spaces and give X(N), Y(N) directional operations - e.g. vertical, horizontal, backwards etc. (eight different directions).

250-570 User to enter up to twenty words, each no more than seventeen characters in length. Errors can be deleted in the usual way. Only uppercase alpha characters will be accepted.

580-940 Prints user data to screen.

950-1050 Prints grid to screen.

Educational Notes

See comments on next wordsquare program.

Program Listing

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10 REM *****
20 REM ** WORDS **
30 REM ** Written by Ian Clarke. **
40 REM ** Feb 83 **
50 REM *****
60 CLEAR
70 *FX5,2
80 *FX8,7
90 *FX6,0
110 MODE 7
111 VDU 23;8202;0;0;0
112 PRINT
113 *FX4,1
114 *FX11,0
120 PROCarr
130 PROCinput
140 PROCsqr
150 PROCdata
160 PROCprint
167 *FX4
168 *FX11,25
169 *FX15
170 A=GET
171 MODE 7
172 END
173 REM -----
174 REM Set up arrays.
180 DEFPROCarr
190 DIM C$(20,20),X(8),Y(8),W$(21)
200 X(1)=1:X(2)=1:X(3)=0:X(4)=-1
210 X(5)=-1:X(6)=-1:X(7)=0:X(8)=1
220 Y(1)=0:Y(2)=1:Y(3)=1:Y(4)=1
230 Y(5)=0:Y(6)=-1:Y(7)=-1:Y(8)=-1
239 REM .....
240 ENDPROC
241 REM -----
242 REM Input the words the user
243 REM wants printed on a grid.
250 DEFPROCinput
260 CLS
270 FOR C=1 TO 20
280 X=0
290 PRINT TAB(10,15);CHR$(141);CHR$(129);"Enter word no
";C
300 PRINT TAB(10);CHR$(141);CHR$(129);"Enter word no ";
C
310 REPEAT
320 X=X+1
330 *FX15
340 A$=GET$
350 IF ASC(A$)<>127 THEN GOTO 390
360 IF LEN(W$(C))>1 THEN X=X-2 ELSE X=0
370 W$(C)=LEFT$(W$(C),LEN(W$(C))-1)
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380      GOTO 420
390      IF ASC(A$)=13 THEN GOTO 480
400      IF A$<"A" OR A$>"Z" THEN GOTO 330
410      W$(C)=W$(C)+A$
420      PRINT TAB(8,17);CHR$(141)SPC40
430      PRINT TAB(8);CHR$(141)SPC40
440      PRINT TAB(8,17);CHR$(141);CHR$(129);W$(C)
450      PRINT TAB(8);CHR$(141);CHR$(129);W$(C)
460      UNTIL X=17
470      GOTO 490
480      IF W$(C)=" " THEN C1=C-1:GOTO 570
490      CLS
500  NEXT C
510  C1=20
520  REM .....
530  ENDPROC
540  REM -----
550  REM      Thinks of grid for
560  REM      chosen words.
570  DEFPROCsq
580  FOR N%=1 TO C1
590      W$=W$(N%)
600      Z%=RND(8)
610      Y%=Y(Z%) : X%=X(Z%)
620      X4%=RND(20):Y4%=RND(20)
630      U$=C$(X4%,Y4%)
640      IF U$=" " THEN GOTO 730
650      I%=0
660      REPEAT
670          I%=I%+1
680          IF MID$(W$,I%,1)=U$ THEN X4%=X4%-( (I%-1)*X%):Y4%=Y4
%-( (I%-1)*Y%):UNTIL I%>0:GOTO 720
690      UNTIL I%=LEN(W$)
700      GOTO 610
710      IF X4%<1 OR X4%>20 OR Y4%<1 OR Y4%>20 THEN GOTO 610
720      X1%=X4%:Y1%=Y4%
730      W%=0
740      REPEAT
750          W%=W%+1
760          IF C$(X1%,Y1%)<>" " AND C$(X1%,Y1%)<>MID$(W$,W%,1) THE
N UNTIL W%>0:GOTO 610
770      X1%=X1%+X%:Y1%=Y1%+Y%

780      IF X1%<1 OR X1%>20 OR Y1%<1 OR Y1%>20 THEN UNTIL W%>0
:GOTO 610
790      UNTIL W%=LEN(W$)
800      X1%=X4%:Y1%=Y4%
810      FOR K%=1 TO LEN(W$)
820          C$(X1%,Y1%)=MID$(W$,K%,1)
830          X1%=X1%+X%:Y1%=Y1%+Y%
840      NEXT K%
850      NEXT N%
860  ENDPROC
870  REM .....
880  REM      Print the user's words
890  REM      to the printer.
900  DEFPROCdata
910  VDU 2
920  CLS
930  FOR Q%=1 TO C1 STEP 2
940      PRINT W$(Q%);TAB(20);W$(Q%+1)
950  NEXT Q%
960  FOR P=1 TO 5000:NEXT
970  REM .....
980  ENDPROC
990  REM -----
1000 REM      Print grid to printer.
1010 DEFPROCprint

```

```

960  FOR Y%=1 TO 20
970      FOR X%=1 TO 20
980          IF C$(X%,Y%) <> "" THEN GOTO 1000
990          C$(X%,Y%) = CHR$(RND(26)+64)
1000      PRINT TAB((X%-1)*2,Y%);CHR$(133);C$(X%,Y%);SPC40
1010      NEXT X%
1020      PRINT
1030  NEXT Y%
1040  VDU 3
1041  REM .....
1050  ENDPROC

```