

WORD SEARCH



This is a brainteaser you have probably come across in puzzle magazines, but that doesn't make it any easier.

The words which are hidden in the screen spaghetti are all four letter - related to food or drink.

How to play

When you have found one of the twenty words on the screen, key it in and press RETURN.

If your guess is correct your word will be ticked, if wrong it will be crossed. Your score will be displayed to the right of the word keyed in by yourself. After five seconds the word will be erased and your next word must be entered.

The words you have found to date will be blanked out on the screen, which should make it easier for you to spot the others.

To change the screen key in NEXT and press RETURN.

Programming hints

Two methods are used to reduce the memory required in this program. First, all the numerical arrays are integer arrays, this is shown by putting a % sign after the variable names. Secondly the possible words are stored one after another in a string, instead of an array.

Another change that you could make is to alter the words that can be found. There are 57 of them in order to make the puzzles as random as possible. These words are stored in the variable W\$ on line 70. If you can think of other four-letters to do with food or drink, then just replace some of the words with those you have chosen. If you want to put in words on a different subject, then think of a subject and replace the words in W\$ with your words all joined together. Remember there must be 57 of them, and they must all have four letters.

If you wish to use longer or shorter words, all words must still be of the same length as each other. Change the word in W\$ so the total number of letters is still the same. Then change ID in line 240 so 4 is replaced by the number of letters in each word, and 57 is replaced by the maximum number of words in W\$. The minimum value of ID must be 1 so 3 should be changed accordingly. The 4 in line 280 should also be changed. If the word length is increased more elements of array L\$ must be checked to be empty and then assigned a letter in lines 290 to 310. Also the 80 (which is 20 words of 4 letters) and 4 in line

520 should be changed. The 4 in line 530, and the 3 and 4 in line 570 should also be changed.

Special feature

If you wish to have a collection of word search puzzles to be completed away from the computer, and you have a 40 column printer, then press CNTRL B then RUN the program and the puzzles will be printed out for you. Press CNTRL C after you have finished.

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10 REM Word Search
20 REM Copyright (C) G.Ludinski 1983
30 MODE 4
40 DIM L$(24,18),CH%(20,14),P%(20)
50 VDU 23,224,0,1,2,4,8,16,160,64
60 VDU 23,225,255,255,255,255,255,255
,255,255
70 W$="FISHMEATCAKESOUPEASSALTCHOPCO
RNWINEBEERLIMEBRANBEANVEALROLLHAKEPIKERO
CKSPAMMALTROLMINTLAMBPOPKBEEFTARTCANENU
TSTUNARICESAKEISAGOLOAFGAMEHERBPEARMLKL
ARDCHIPCTEWOATSPATESAGEMACECRABMASHCOLAP
ITHPEELSOYALEEKDUCKDILLYOLKBALMSUETSODA"
80 P%(0)=240
90 REM
100 REM GENERATE LETTERS
110 REM
120 CLS
130 WC$=" ":CR=0
140 FOR I=1 TO 14
150   FOR J=1 TO 20
160     L$(J,I)=" "
170     CH%(J,I)=0
180   NEXT J
190 NEXT I
200 FOR I=1 TO 20
210   D=RND(3)
220   R=RND(10):IF D=2 THEN R=RND(14)
230   C=RND(16):IF D=1 THEN C=RND(20)
240   ID=4*RND(57)-3
250   FOR Q=0 TO I-1:IF ID=P%(Q) THEN
240
260     NEXT Q
270     P%(I)=ID
280     WD$=MID$(W$,ID,4)
290     IF D=1 AND L$(C,R)=" " AND L$(C,
+1)=" " AND L$(C,R+2)=" " AND L$(C,R+3)=" "
THEN FOR K=0 TO 3:L$(C,R+K)=MID$(WD$,K+
1,1):CH%(C,R+K)=I:NEXTK:GOTO330
300     IF D=2 AND L$(C,R)=" " AND L$(C+1
,R)=" " AND L$(C+2,R)=" " AND L$(C+3,R)=" "
THEN FOR K=0 TO 3:L$(C+K,R)=MID$(WD$,K+
1,1):CH%(C+K,R)=I:NEXTK:GOTO330
310     IF D=3 AND L$(C,R)=" " AND L$(C+1
,R+1)=" " AND L$(C+2,R+2)=" " AND L$(C+3,R
+3)=" " THEN FOR K=0 TO 3:L$(C+K,R+K)=MID
$(WD$,K+1,1):CH%(C+K,R+K)=I:NEXTK:GOTO33

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0
320      GOTO210
330      WC$=WC$+WD$
340      NEXTI
350      REM
360      REM  DISPLAY  LETTERS
370      REM
380      FOR  I=1  TO  14
390          FOR  J=1  TO  20
400              IF  L$(J,I)=" " THEN PRINTTAB(2*
J-2,I*2-1);CHR$(64+RND(26));" ";:GOTO420
410              PRINTTAB(2*J-2,I*2-1);L$(J,I);
" ";
420          NEXT  J
430      NEXT  I
440      REM
450      REM  CHECK  ANSWER
460      REM
470      FOR  N=1  TO  20
480          PRINT  TAB(0,29)"What  food  and  dr
ink  words  can  you  find  ";
490          VDU  11
500          INPUTI$
510          IF  I$="NEXT" THEN GOTO120
520          FOR  M=1  TO  80  STEP  4
530              IF  I$<>MID$(WC$,M,4) THEN 610
540              PRINTTAB(8,30)CHR$(224);:CR=CR
+1:PRINTTAB(35,30);CR;
550              FOR  I=1  TO  14
560                  FOR  J=1  TO  20
570                      IF  CH%(J,I)=(M+3)/4 THEN P
RINTTAB(2*J-2,I*2-1);CHR$(225);
580                      NEXTJ
590                  NEXTI
600                  GOTO630
610                  NEXTM
620                  PRINTTAB(8,30);"  X";:RB$=INKEY$
(500):GOTO480
630                  NEXT  N

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