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10 REM wordsquare solver
20 REM(c) Computing with the Amstrad
30 REM by David McLachlan
40 REM from an idea by Kevin Edwards
50 MODE 1
60 PAPER 0:CLS
70 PRINT"Enter file name ";:INPUT fsp
$
80 IF LEN(fsp$))7 THEN PRINT CHR$(7):
CLS:GOTO 70
90 GOSUB 900
100 LOCATE 1,3:PRINT"Print out (Y/N)?
"
110 k$="":WHILE k$()"N" AND k$()"Y":k
$=UPPER$(INKEY$):WEND
120 IF k$="Y" THEN stream=8 ELSE stre
am=0
130 GOSUB 220:REM set up
140 WHILE n()number-1
150 GOSUB 400:REM get key
160 WEND
170 LOCATE 1,22:PRINT"Well done"
180 LOCATE 1,24:PRINT"Print out (Y/N)
?"
190 e$="":WHILE e$()"N" AND e$()"Y":e
$=UPPER$(INKEY$):WEND
200 IF e$="Y" THEN k$="Y":GOTO 350
210 END
220 REM **** set up ****
230 CLS
240 tim=TIME
250 INK 2,6
260 PEN 1:n=0
270 PRINT STRING$(xx+2,CHR$(207))
280 FOR loop=2 TO yy+2
290 LOCATE 1,loop:PRINT CHR$(207):LOC
ATE xx+2,loop:PRINT CHR$(207)
300 NEXT
310 LOCATE 1,yy+2:PRINT STRING$(xx+2,
CHR$(207))
320 DIM grid2(xx+2,yy+2)
330 FOR loop=2 TO xx+1:FOR loop2=2 TO
 yy+1:grid2(loop,loop2)=0:NEXT:NEXT
340 GOSUB 850:REM move arrow
350 IF k$="Y" THEN FOR loop=2 TO xx+1
:st$="":FOR loop2=2 TO yy+1:st$=st$+g
rid$(loop2,loop)+" ":NEXT:PRINT#8,st$
:NEXT:IF e$="Y" THEN END
360 FOR loop=2 TO xx+1:st$="":FOR loo
p2=2 TO yy+1:LOCATE loop,loop2:PRINT
grid$(loop,loop2):NEXT:NEXT
370 FOR loop=1 TO number-1:LOCATE 25,
loop+2:PRINT word$(loop):NEXT:PEN 1
380 LOCATE 2,2:PRINT CHR$(233)
390 RETURN
400 REM **** get key ****
410 CALL &BFF9,&C9,&1CED,&CF00
420 k$="":WHILE k$="":k$=INKEY$:WEND
430 IF grid2(x,y)=0 THEN PEN 1:LOCATE
 x,y:PRINT grid$(x,y) ELSE PEN 3:LOCA
TE x,y:PRINT grid$(x,y)
440 k$=UPPER$(k$)
450 IF k$=CHR$(240) THEN y=y-1
460 IF k$=CHR$(241) THEN y=y+1
470 IF k$=CHR$(242) THEN x=x-1
480 IF k$=CHR$(243) THEN x=x+1
490 IF k$=CHR$(224) AND f=1 THEN f=2:
PEN 3:LOCATE 23,1:PRINT CHR$(233)
500 IF flag=1 THEN flag=0:f=0:LOCATE
22,1:PRINT SPACE$(2)+CHR$(7):RETURN
510 IF k$=CHR$(224) AND f=0 THEN xs=x
:ys=y:PEN 3:LOCATE 22,1:PRINT CHR$(23
3):f=1
520 IF x=xx+2 THEN x=2 ELSE IF y=yy+2
 THEN y=2
530 IF x=1 THEN x=xx+1 ELSE IF y=1 TH
EN y=yy+1
540 PEN 1:LOCATE x,y:PRINT CHR$(233)
550 IF f=2 THEN f=0:GOSUB 570:LOCATE
1,1:PRINT CHR$(22);CHR$(0):LOCATE 22,
1:PRINT SPACE$(2):GOSUB 850:REM move
star
560 RETURN
570 REM **** print word ****
580 word$=""
590 length2=0:length3=0
600 xd=SGN(x-xs):yd=SGN(y-ys):xp=xs:y
p=ys
610 length2=ABS(y-ys)+1
620 length3=ABS(x-xs)+1
630 IF xd()0 AND yd()0 AND length2()l
ength3 THEN RETURN
640 IF xd=0 AND yd=0 AND length2()len
gth3 THEN RETURN
650 IF length2)length3 THEN length=le
ngth2 ELSE length=length3
660 FOR loop=0 TO length-1
670 word$=word$+grid$(xp,yp):xp=xp+xd
:yp=yp+yd:NEXT
680 flag2=0:FOR loop=1 TO number
690 IF word$=word$(loop) THEN flag2=1
:num=loop
700 NEXT
710 IF flag2()1 THEN PRINT CHR$(7):RE
TURN
720 xp=xs:yp=ys
730 FOR loop=0 TO length-1
740 PEN 2:LOCATE 25+loop,num+2:PRINT
grid$(xp,yp)
750 LOCATE xp,yp:PEN 3:PRINT grid$(xp
,yp):grid2(xp,yp)=1
760 xp=xp+xd:yp=yp+yd
770 NEXT
780 LOCATE x,y:PEN 1:PRINT CHR$(233):
PEN 3
790 MI=INT((TIME-tim)/18000) MOD 60:I
F MI)1 THEN m$="s " ELSE m$=" "
800 sec=INT((TIME-tim)/300) MOD 60:IF
 sec)1 THEN s$="s " ELSE s$=" "
810 IF mi)0 THEN TIM$=STR$(mi)+" Min"
+m$+STR$(sec)+" Sec"+s$ ELSE TIM$=ST
R$(sec)+" Sec"+s$
820 LOCATE 25,22:PRINT"Time taken":LO
CATE 24,24:PRINT TIM$
830 IF n()number-2 THEN FOR loop=1 TO
 1500:NEXT:LOCATE 24,24:PRINT SPACE$(
15)
840 RETURN
850 REM **** move arrow ****
860 IF num=0 THEN RETURN
870 PEN 3:LOCATE 23,num+2:PRINT CHR$(
42):PEN 1
880 n=n+1
890 RETURN
900 REM **** load data ****
910 OPENIN fsp$
920 INPUT #9,xx,yy
930 DIM grid$(xx+2,yy+2)
940 FOR loop1=2 TO xx+1:FOR loop2=2 T
O yy+2
950 INPUT #9,grid$(loop1,loop2)
960 NEXT:NEXT
970 INPUT #9,number
980 DIM word$(number)
990 FOR loop=1 TO number:INPUT #9,wor
d$(loop):NEXT
1000 x=2:y=2
1010 RETURN
1020 REM **** check ****
1030 flag=0
1040 xd=SGN(x-xs):yd=SGN(y-ys)
1050 xd=xd*length
1060 yd=yd*length
1070 IF xs+xd)x OR xs+xd(x THEN flag=
1:RETURN
1080 IF ys+yd)y OR ys+yd(y THEN flag=
1:RETURN
1090 RETURN
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