

Wordsum (Model A)

A test of your logical thought processes, this program presents you with a sum to solve. Not so difficult you might think, but in this case some of the numbers have been replaced by letters, and the answer you want is not a number, but the word that the numbers spell! The program gives you a different set of number/letter substitutions for each problem, and the answer is always to be found if you follow the arithmetic through.

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1  REM **WORDSUM**      *BBC VERSION*
10 ON ERROR RUN
20 MODE7
30 PRINT'CHR$141;CHR$&84;CHR$157;CHR$&87TA
B(15)"WORDSUM"CHR$156'CHR$141;CH
R$&84;CHR$157;CHR$&87TAB(15)"WORDSUM
"CHR$156
40 DIMA(10),C(10),A$(10),W$(60)
50 N=1
60 READW$(N):IFW$(N)="!" N=N-1:GOTO80
70 N=N+1:GOTO60
80 T=0:NN=1+RND(N-1):X=6:T$=""
90 PRINTTAB(5,5)CHR$&91"7"
"
100 FORX=1TO7:PRINTTAB(5)CHR$&91"5"CHR$&96
;CHR$157;CHR$&84;"
";CHR$156;
CHR$&91"j":NEXT
110 PRINTTAB(5)CHR$&91"upppppppppppppppppppp
ppppz"
120 P$=W$(NN)
130 FORX=1 TO LEN(P$)
140 A$(X)=MID$(P$,X,1)
150 IFX=1 GOTO180
160 FORZ=1TOX-1:IFA$(X)=A$(Z) A(X)=A(Z):G
OTO230
170 NEXTZ
180 A(X)=RND(9)
190 IFA(1)=0 GOTO180
200 IFX=1 GOTO230
210 FORY=1TOX-1:IFA(X)=A(Y) GOTO180

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220     NEXT Y
230 NEXT X
240 P=0
250 FOR X=LEN(P$) TO 1 STEP -1
260     T=T+A(X)*10^P
270     P=P+1
280 NEXT
290 S=9*(1000+RND(8999))
300 I=T-S
310 S$=STR$(S):T$=STR$(T):I$=STR$(I)
320 FOR X=1 TO LEN(T$)
330     FOR Y=1 TO LEN(I$)
340         IF MID$(I$,Y,1)=MID$(T$,X,1) C(X)=1:
I$=LEFT$(I$,Y-1)+A$(X)+RIGHT$(I$,LEN(I$)-Y)
350     NEXT,
360     FOR X=1 TO LEN(T$)
370         FOR Y=1 TO LEN(S$)
380             IF MID$(S$,Y,1)=MID$(T$,X,1) C(X)=
1:S$=LEFT$(S$,Y-1)+A$(X)+RIGHT$(S$,LEN(S$)-Y)
390         NEXT,
400         FOR X=1 TO LEN(T$)
410             IF C(X)=0 T$=LEFT$(T$,X-1)+A$(X)+R
IGHT$(T$,LEN(T$)-X)
420     NEXT
430     PRINT TAB(25-2*LEN(I$),7);:FOR X=1 TO
LEN(I$):PRINT MID$(I$,X,1) " ";:NEXT
440     PRINT TAB(25-2*LEN(S$),9);:FOR X=1 TO
LEN(S$):PRINT MID$(S$,X,1) " ";:NEXT
450     PRINT TAB(12,10) "_____ "
460     PRINT TAB(25-2*LEN(T$),11);:FOR X=1 T
O LEN(T$):PRINT MID$(T$,X,1) " ";:NEXT
470     PRINT TAB(0,20) CHR$141;CHR$&82"      P
ress Space to reveal the word." 'CHR$141;CHR$&
83"      Press Space to reveal the word."
480     REPEAT UNTIL GET=32
490     PRINT TAB(0,20) STRING$(80," ")
500     PRINT TAB(5,14) CHR$&95"<,,,,,,,,,,,,,
,,,,,,,,,,,,,1"
510     FOR X=1 TO 4:PRINT TAB(5) CHR$&95"5 "CHR
$&83;CHR$157;CHR$&84"                      ";CHR$1
56;CHR$&95"j":NEXT
520     PRINT TAB(5) CHR$&95"-,,,,,,,,,,,,,
,,,,,,,,. "
530     VDU 7:PRINT TAB(21-LEN(I$),15) STR$(I)
TAB(21-LEN(S$),16) STR$(S) TAB(14,17) "-----"

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188 Wordsum

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'TAB(21-LEN(T$),18)STR$(T)
  540      PRINTTAB(5,20)CHR$&96"<,,,,,,,,,,,,,
,,,,,,,,,,,,,1":FORX=1TO2:PRINTTAB(4)CHR$141;CH
R$&96"5 "CHR$&82;CHR$157;CHR$&87"
      "CHR$156;CHR$&96"j":NEXT
  550      PRINTTAB(5)CHR$&96"-,,,,,,,,,,,,,
,,,,,,,,,."
  560      FORX=1TOLEN(P$)
  570      PRINTTAB(11+X*2,21)MID$(P$,X,1)
  580      PRINTTAB(11+X*2,22)MID$(P$,X,1)
  590      NEXT
  600      PRINTTAB(0,24)CHR$136;CHR$&82"Press
RETURN for another wordsum.";
  610      REPEAT UNTIL GET=13
  620      RUN
  630      DATA HEARTH,YELLOW,ENGINE,RABBIT,CA
RPET,CLEVER,FEASTS,SHADES,POTATO,RADIUS,THAME
S,CARROT,TOMATO,CHEESE,BUTTER,RUDDER,HEATER,P
LINTH,FARMER,TROPHY
  640      DATA CHERRY,HAPPEN,COFFEE,TEAPOT,MO
THER,SISTER,HOUSES,CABINS,ISLAND,PIRATE,SILVE
R,JEWELS,BOUNTY,TOWELS,PLANES,PLANTS,HOCKEY,T
ENNIS
  650      DATA COSTLY,LEMONS,APPLES,ORANGE,VI
OLET,ROBBER,RATHER,POINTS,PAINTS,TANDEM,LETTE
R,LITTER,LATTER,FASTER,MASTER,MISTER
  660      DATA"! "
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