

CALCULATOR HANGMAN

Use your calculator for word games. By Rick Campbell of London Ontario.

THIS PROGRAM is a calculator version of the popular game "Hangman". The object of the game is to guess a hidden word which has been entered by your opponent. Guesses are made by entering a letter from the alphabet which the player believes is contained in the hidden word. Because calculators only accept numerical data the letters are represented by number combinations, with 00 being "A", up to 25 being "Z".

After a guess has been made a response will appear on the display. If the letter guessed is not contained in the word, the display will indicate a zero. If the letter guessed is contained in the word the calculator display will show the position of the letter in the word.

Example: The hidden word is "LOUD"
The player's guess is "O" (14). The display indicates a 3, the third position from the right.

If the word contains more than one of the letters guessed, the display will indicate the position of all the correct letters. Example: The hidden word is "STRUT". The guess is "T". The display will indicate a 41, fourth and first positions.

SAMPLE GAME

For TI SR 56.

Step 1. The word is selected and entered by the opponent. In this case we will use "TEST".

ENTER:

RST

19041819

R/S

Step 2. The word length is entered by the opponent.

ENTER:

4

R/S

Step 3. The player enters a guess.

The resulting game is shown in Fig. 1.

ENTER	GUESS	DISPLAY	LETTERS USED	WORD
00 R/S	A	0	A	****
04 R/S	E	3	AE	*E**
08 R/S	I	0	AEI	*E**
19 R/S	T	41	AEIT	TE*T
18 R/S	S	2	AEITS	TEST

Fig. 1. Sample game.

PROGRAM FOR TI SR 56

LOC	CODE	KEY				
00	38	CMS	01	1	04	4
	33	STO	35	SUM	64	x
	01	1	30	04	34	RCL
	33	STO	34	RCL	05	5
	02	2	01	1	60	=
	01	1	54	÷	35	SUM
	33	STC	01	1	06	6
	05	5	00	0	27	dsz
	41	R/S	00	0	02	2
	33	STO	94	=	08	8
10	00	0	33	STO	34	RCL
	33	STO	07	7	02	2
	03	3	40	29	33	STO
	41	R/S	33	STO	01	1
	54	÷	01	1	70	34
	01	1	34	RCL	03	3
	00	0	07	7	33	STO
	00	0	12	INV	00	0
	94	=	29	INT	34	RCL
	32	x → y	12	INV	06	6
20	01	1	37	x = y	54	÷
	33	STO	06	6	01	1
	05	5	50	03	00	0
	00	5	01	1	94	=
	33	STO	00	0	80	41
	04	4	30	Prod	22	GTO
	33	STO	05	5	01	1
	06	6	34	RCL	04	4