LogiTrumps

A card game for the Amstrad CPC.

# Description



LogiTrumps is a trump card game with retro computers. It’s like we used to play it in the 80ies. Each player (you and the computer) gets the same number of cards. Each card represents a retro computer and has several values like year, memory and colours. Each card has its strengths and weaknesses. If a computer has a lot of memory or colours, he usually is not that old and therefor would likely loose in the year category. Usually the higher value wins. The year category is the only category where the lower value wins. The player who gets all cards first wins the game.

# How to play

At the beginning of the game the cards are shuffled. You and the computer get the same number of cards. You can choose a category by typing the corresponding number. The program will calculate weather you won, lose or make a draw against the computers card. If you win, you get the computers card. If you lose the computer gets your card. If it’s a draw you keep your cards and just continue with the next card. If it’s the computers turn you can just watch what the computer choses and what happens.

# Emulator Usage

Disk: Run the emulator of your choice. Insert the disk. (Show the directoy with cat.) Load the program (load “logitrum”). Run.

BAS-File: Just drag and drop the file over the JavaCPC emulator (or another one, that allows that).

# Variables and Data Structures

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| --- | --- |
| Variable | Usage |
| u | Users turn (1) or computer (0) |
| p[] | Person’s array for position of cards |
| c[] | Computer’s array for position of cards |
| r | Number of cards of person |
| e | Number of cards of computer |
| t$[] | Name of cards |
| a(card, factor) | Factors of the cards |
| p | Current position/card of person |
| c | Current position/card of computer |
| n | Round |
| b | Selected factor |
| z | Factor to print |
| d | User (1) or computer (0) to be printed as symbol |

# Code

1 DATA zx80,10,1,2,a500,3,512,4096,c64,8,64,16,c16,6,16,121,a][,13,4,15:r=4:e=4

2 PRINT"LogiTrumps":FOR c=0 TO 7:READ t$(c),a(c,0),a(c,1),a(c,2):p=INT(RND(1)\*8)

3 WHILE p(p)+c(p):p=(p+1) MOD 8:WEND:p(p)=(c+1)\*-(c<4):c(p)=(c-3)\*-(c>3):NEXT:u=1

4 n=n+1:i=0:WHILE p(i)<>n:i=i+1:WEND:p=i:i=0:WHILE c(i)<>n:i=i+1:WEND:c=i

5 b=-(a(c,2)>16)\*2:PRINT r":"e:d=1:z=p:GOSUB 10:IF u THEN INPUT " 1-3: ",b:b=b-1

6 d=0:z=c:GOSUB 10:PRINT b+1:DATA atari400,11,8,128,cpc464,6,64,27,c128,5,128,16

7 p(p)=n+r:c(c)=n+e:IF a(p,b)>a(c,b)THEN PRINT":-)":p(c)=n+r+1:c(c)=0:r=r+1:e=e-1:u=1

8 IF a(p,b)<a(c,b) THEN PRINT ":-(":c(p)=n+e+1:p(p)=0:r=r-1:e=e+1:u=0

9 CALL &BB06:IF e=0 THEN PRINT "won!":END:ELSE IF r=0 THEN PRINT "lost!":END:ELSE 4

10 PRINT""CHR$(7+d\*18)" "t$(z):PRINT 1990-a(z,0):PRINT a(z,1)"kb"a(z,2)"cols":RETURN

Control characters aren’t shown correctly due to the font.

# Code description

1 Just data of the cards.  
2 Show the title. Read the cards into variables.  
2-3 Shuffle the cards. Let the human start.  
4 Get the currently playing card’s positions.  
5 Calculate the selected category. Print the user’s card. Ask the user if it’s his turn for the category.  
6 Print computers card. Some more data.  
7 Check if turn won and adapt cards and cards count.  
8 Check if turn lost and adapt cards and cards count.  
9 Check if game over and print result or go on.  
10 Print card (name and properties).

# Line lengths



As you can see each line with more than 80 characters (=1 line) contains PRINT statements that can be shortened and/or the space after the line number is not necessary. Therefore, all lines have less than 80 characters.

# Further Information

This program is part of a bigger project and available for different platforms. For more information check <https://logiker.com/LogiTrumps>.