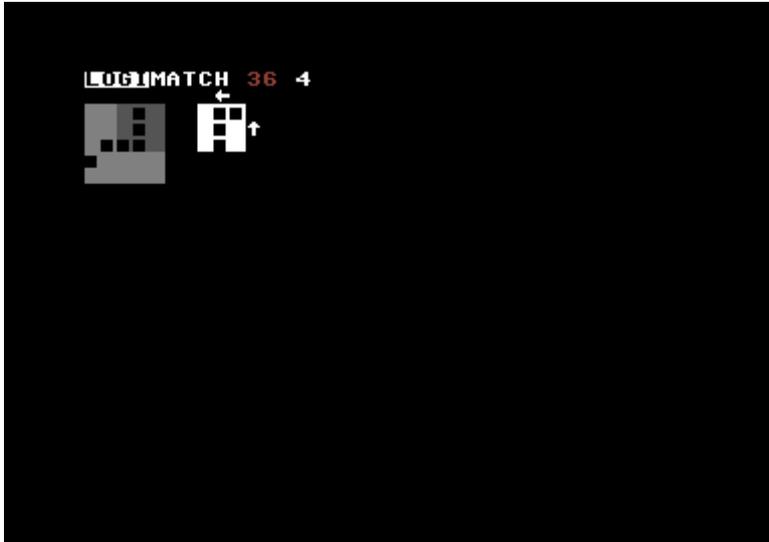


# LogiMatch

A game for the Commodore C64.

## DESCRIPTION



LogiMatch is a puzzle finder game against the clock. You have one minute to find as many matching QR-Code like shapes as possible. But be aware, the shapes can be mirrored vertically or horizontally or even both. (If a shape is mirrored this is indicated by an arrow to the left or an arrow upwards.)

## HOW TO PLAY

Use the cursor keys to move the selecting colour frame. Push enter if you think that you found the match. That's it!

## EMULATOR USAGE

Run the program with vice's x64.exe. (You may use drag and drop.)

## VARIABLES AND DATA STRUCTURES

Variable	Meaning
s	Screen base memory address
c	Colour base memory address
v()	Vertical move difference (depending on cursor keys)
h()	Horizontal move difference (depending on cursor keys)
t	Colour base memory address for solution field
u	Colour base memory address for play field
z	40 (screen width; just used to save one byte somewhere else)
x, y	Position of player
a, b	Position of randomly chosen solution
h, v	Split horizontally / vertically (1..no, -1..yes)
l	Level reached
p\$	String to position the output of points and level
i, j	Used to iterate "rectangles"
w	2 (for minor speedup)
f	5 (for minor speedup)

## CODE

```
0?"{white}{clear} {reverse on}logi{reverse off}match":p053280,0:p053281,0:s=1064:c=
55336:dIv(s):dIh(s):v(145)=-1
1v(17)=1:h(157)=-1:h(29)=1:t=s+9:u=s+2:z=40:w=2:l=0:ti$="235957":p$="{home}{right}{
right}{right}{right}{right}{right}{right}{right}{right}{red}"
2x=0:y=0:a=int(rN(0)*3):b=int(rN(0)*3):h=int(rN(0)*1.8)*2-1:v=int(rN(0)*1.8)*2-1
3f=5:f0i=1tof:f0j=1tof:p0s+i*z+j,int(rN(.)+.5)*80+80:nE:nE:l=1+1:p01073,31-(v>0)
4f0i=-1to1:f0j=-1to1:p0s+9+(i+2)*z+j,pE(s+w+(w+a+i*h)*z+b+j*v):nE:nE
5f0i=1tof:f0j=1tof:p0c+i*z+j,12+(aB(i-w-y)<wNaB(j-w-x)<w):nE:nE:p01155,31+h
6gEd$:?p$;rI(ti$,2)"{white}"l:on-(mid$(ti$,4,1)="1")g09:on-(d$="")g06:on-(d$<>){ret
urn}")g08
7f0i=-1to1:f0j=-1to1:on-(pE(t+(i*h+2)*z+j*v)<>pE(u+x+(2+i*y)*40+j))g06:nE:nE:g02
8x=x+h(aS(d$)):y=y+v(aS(d$)):x=x-int(x/3):y=y-int(y/3):g05:rem1-liner compo pls!
9?"{down}{down}{down}{down}{down}{down}{down}time up!{return}{return}you reached
level";l:input"{return}try again";x$:ifx$="y"thenrun
```

## CODE DESCRIPTION

- Line 0 clears the screen and shows the name of the game. It initializes many values.
- Line 1 and 2 also initialize many values. The coordinates of the solution are calculated and if the solution shall be mirrored (vertically (v) or horizontally (h)) or not.
- Line 3 fills the field with random shapes. Either empty or square (80 or 160). V-information (array left) is shown.
- Line 4 copies the solution.
- Line 5 sets the color frame, so you can see where you currently are. H-information (arrow up) is shown.
- Line 6 ready the users input (direction) and also checks the time.
- Line 7 checks if the solution is correct. If yes, you reach the next level.

- Line 8 moves the position of the selection.
- Line 9: Game over! Wanna try again?

#### LINE LENGTHS

```
77 0?"(white
77 1v(17)=1:
80 2x=0:y=0:
80 3f=5:fOi=
68 4fOi=-1tc
76 5fOi=1tof
78 6gEd$:?p$
80 7fOi=-1tc
80 8x=x+h(aS
77 9?"(down)
```