

# BRAINFLUX

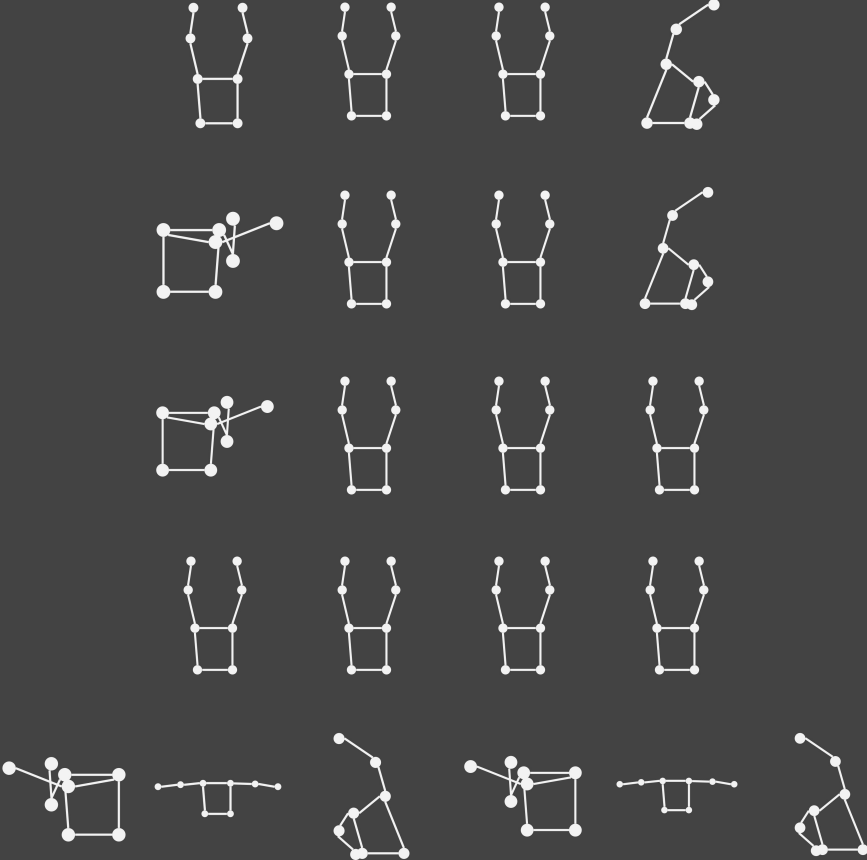
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Brainflux is an esoteric Brainf\*\*\* dialect that takes out the foul mouth and the text form and leaves us with our bodies, minds and the cyberspace.

A Brainflux program is a sequence of poses. The nature of the pose is two-fold: One is to treat your body with respect and care, stretching important muscles and nerves that are important for a healthier body. The other is to be translated into cyberspace as instructions. The current pose is where the program pointer is at.

In regular Brainfuck one can consider quite annoying the amount of repetitive characters and condemn its lack of readability but when you switch the characters by stretching poses, repetition becomes pleasant and the program can be read as dance or meditation practice.

Example of Brainflux program. When executed it results in 42.



You can think of the Brainflux memory as a piece of paper split into lines, squares or circles if you want. We'll refer to each division as a memory cell. The machine can write and erase on the memory cell but only the one that is being pointed at by the memory pointer.

# Memory cells



^ (Memory pointer)

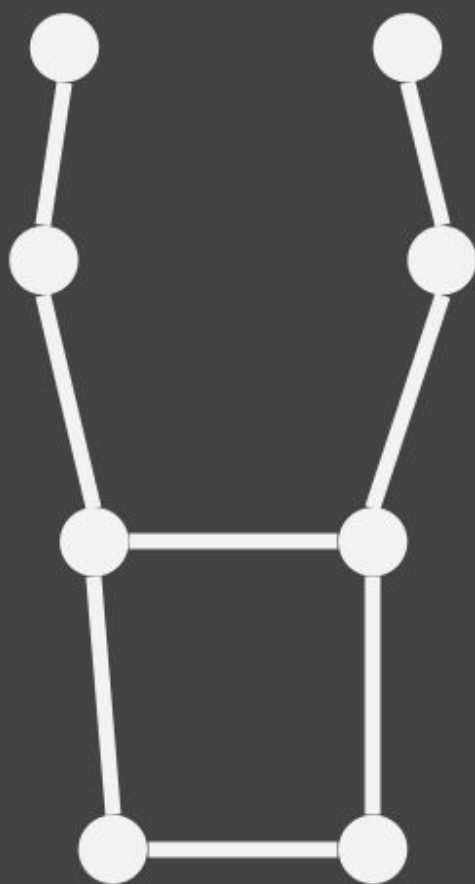
# Brainflux program



^ (Program pointer)

# The increment

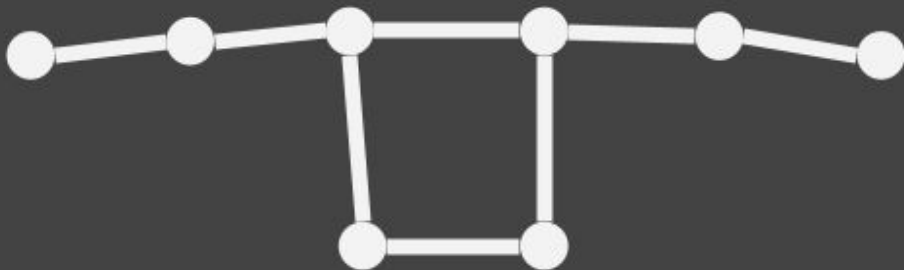
The increment raises both hands to the highest you can, parallel arms and face pointing upwards. Imagine you are hanging by your arms and let the weight of your body stretch your shoulders, back and arms towards the sky. Take a deep breath for each increment. The increment instructs the current value pointed in memory to be incremented by 1.



# The decrement

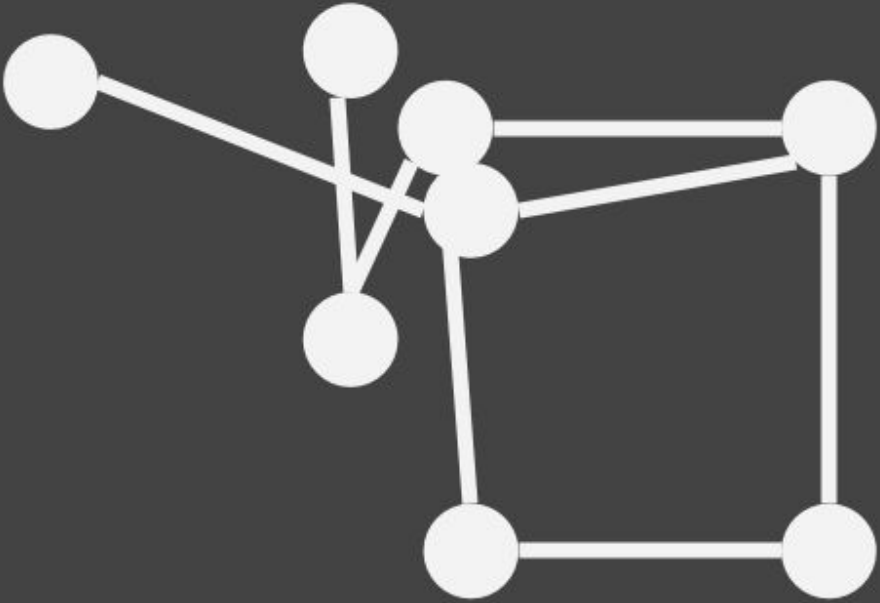
The decrement opens your arms horizontally, stretching it to the max in opposite directions. You can bend your arms slightly backwards so your chest makes an arc to give an extra stretch to it. Imagine you are being pulled by your arms by two opposite forces, each arm desires to go in a completely different direction yet you want to stay in place. Take a deep breath for each decrement. The decrement instructs the current value pointed in memory to be decreased by 1.





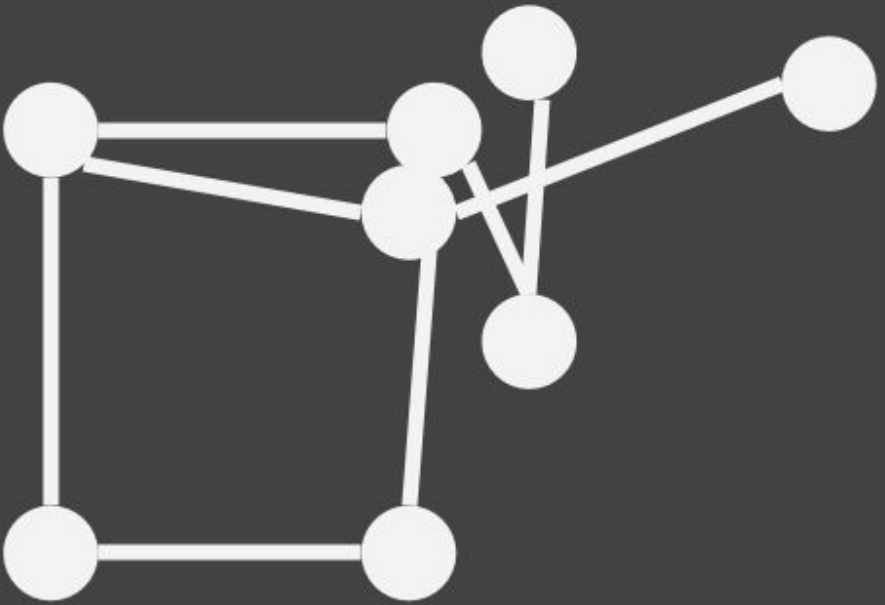
# The left shift

Bring your right hand to the leftmost place it can reach by bending it towards your chest. Use your left hand to hold the arm in place while you stretch the right arm. Try rotating your torso so the shoulders are aligned with your feet and face. Imagine you are laying down with your right arm underneath you so your body weight is bringing the arm towards you. Take a deep breath for each shift. The left shift instructs the memory pointer to jump the cell to its left.



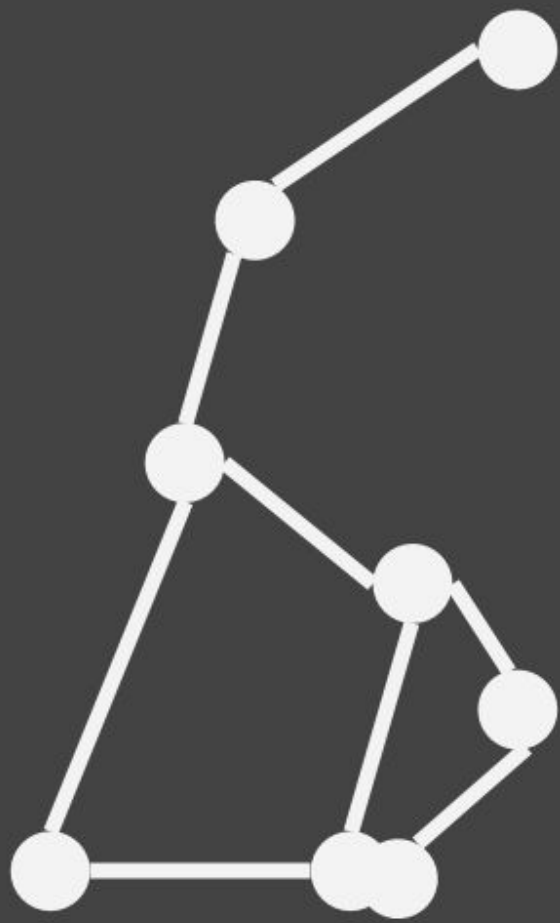
# The right shift

The right shift is the horizontally flipped version of the left shift: Fold your left arm to the right. Take a deep breath for each shift. The right shift instructs the memory pointer to jump to the cell to its right.



# Open loop

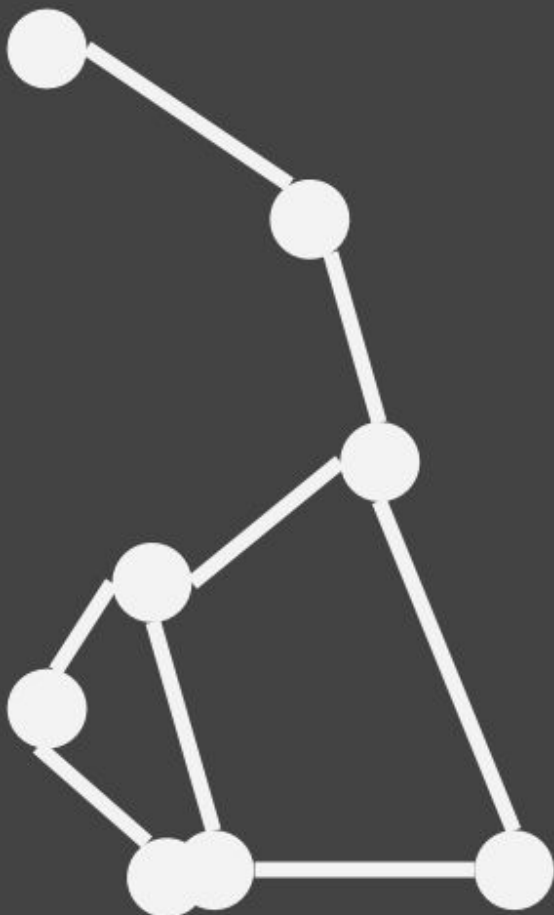
With your right hand on your waist and slightly separated feet, stretch your left arm upwards and start bending to the right until it goes over a vertical line starting where your right foot is at. Feel the stretch on your lateral muscles and how some muscles have to contract so others can relax and stretch. Take a deep breath for each loop you want to open. The open loop instructs the Brainflux computer to look at the current value pointed in memory and make a decision: If the value is 0, skip all instructions until the matching close loop pose. If the value is not 0, remember there is a loop being opened at this part of the program and move on.



# Close loop

The close loop is the horizontally flipped version of the open loop: Left hand on waist and right arm stretching up and bending to the right. Take a deep breath for each loop you want to close. The close loop instructs the program pointer to move back to its matching open loop.





If you want to try a textual form of Brainflux and design your own programs, you can visit:

<https://murilopelese.github.io/vms/brainflux/>

The increment:	+
The decrement:	-
The left shift:	<
The right shift:	>
Open loop:	[
Close loop:	]

```
>+>+> <[>
```

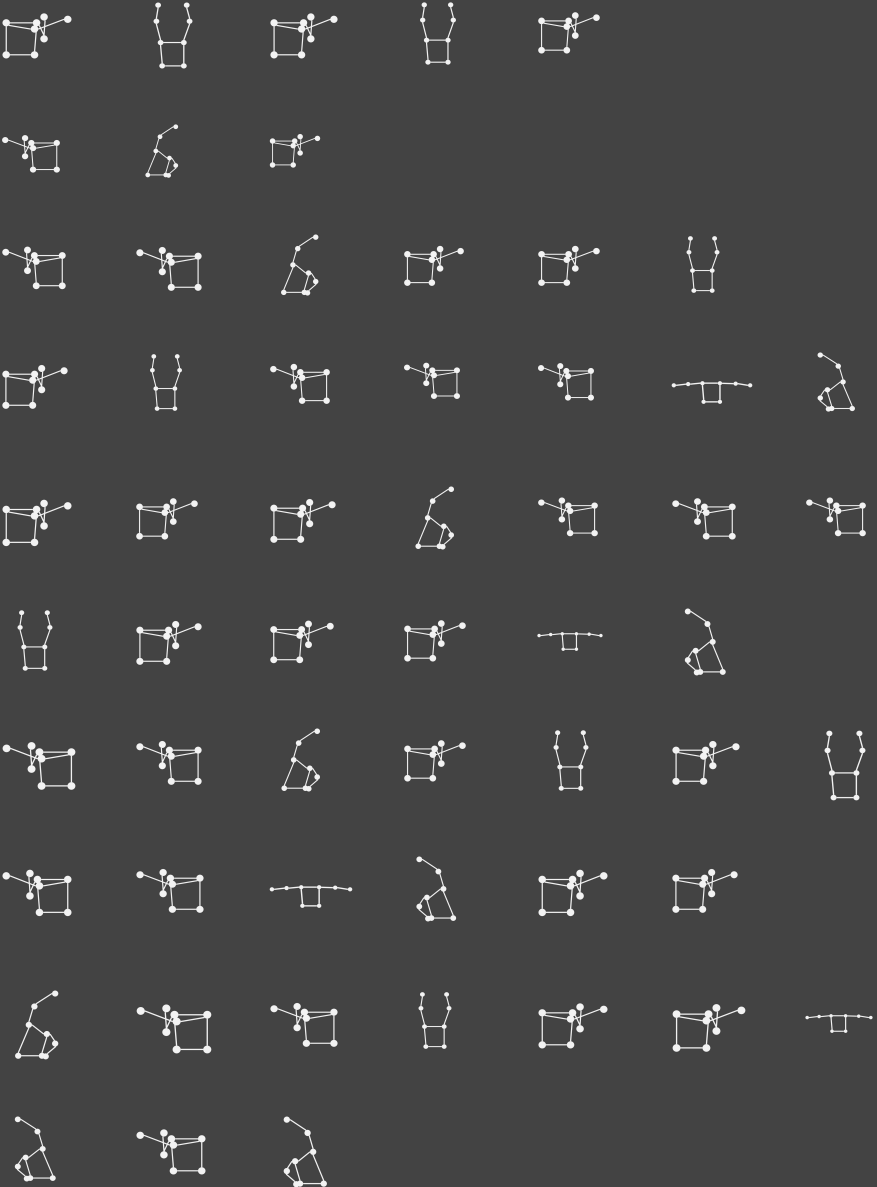
```
<<[>>+>+<<<- ]
```

```
>>>[<<<+>>>- ]
```

```
<<[>+>+<<- ]>>
```

```
[<<<+>>- ]<]
```

This program places fibonacci numbers on memory cells:



tap and stretch  
use and create  
repeat and think