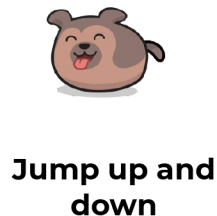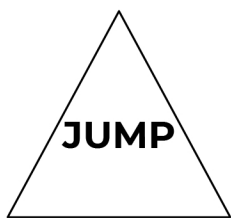## Overview

Commands, sequencing, and algorithms are the basics of coding. A **command** is a single instruction in code. The order that commands are performed by a computer is called a **sequence**. **Algorithms** are made up of sequenced commands and computers follow them in the exact order given. Simply put, algorithms are steps to complete a task. Algorithms help coders tell computers what they want them to do.

Robot

Commander

JUMP

Jump up and down

DANCE

Do a dance move

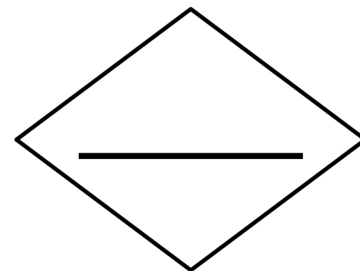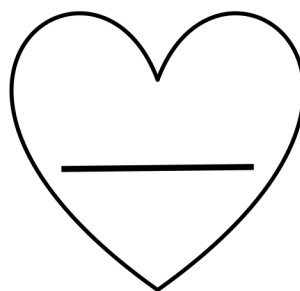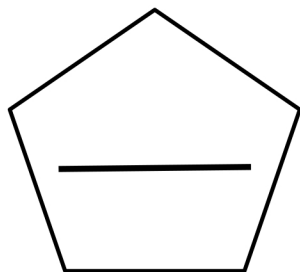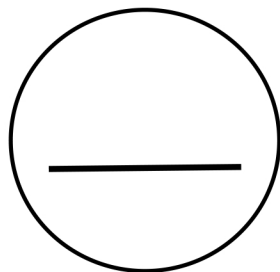**SLEEP**

Act like you are sleeping

Instructions

Robot Commander is a game to teach you commands, sequencing, and algorithms. You can play at home with at least 2 or more people. One player will be the Commander and the other players will be Robots.

The Commander will choose a series of commands and the Robots will follow those commands exactly.

Once the Robots learn the commands, the Commander can create algorithms. The algorithms will be sequenced so the Robots will need to pay attention to the algorithm the Commander creates. Have fun and take turns being the Commander!

What other commands can you think of? Use the new command buttons to create your own and write the command on the line!
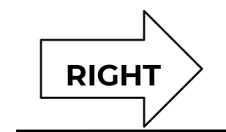
Creating algorithms: The Commander should fill in the blanks by drawing any commands they want the Robots to do for each algorithm. Pay attention to the sequence of the algorithm.

Algorithm- 3 commands

Example:

JUMP ▲   RIGHT ➡   SLEEP ☁

1   2   3

_____   _____   _____

1   2   3

Algorithm- 4 commands

_____   _____   _____   _____

1   2   3   4

Algorithm- 5 commands

_____   _____   _____   _____   _____

1   2   3   4   5