

# Simple Remote Control

Time required: 60 minutes

Please read all the directions carefully before beginning the assignment.

- Comment your code as shown in the tutorials and other code examples.
- Follow all directions carefully and accurately.
- Think of the directions as minimum requirements.

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## Description

The IR remote control can be programmed to control the mBot's movement and other program commands. This project will get you started with remote control movement.

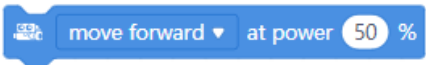
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## Understanding

Demonstrate understanding of:

IR remote, remote control, movement blocks

## Knowledge Point

	The forward-moving rotation speed is -100%~100%. A positive number represents moving forward, and a negative one moving backward. 0 speed represents stop. The bigger the number is, the quicker it moves. In the tutorial example the speed is set to 50%. Do not use a speed of less than 30%, or the motor will stall.
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## What if the rotation speed for moving forward is beyond 100%?

If the speed is set beyond 100%, it will be automatically set as 100% which is the maximum speed.

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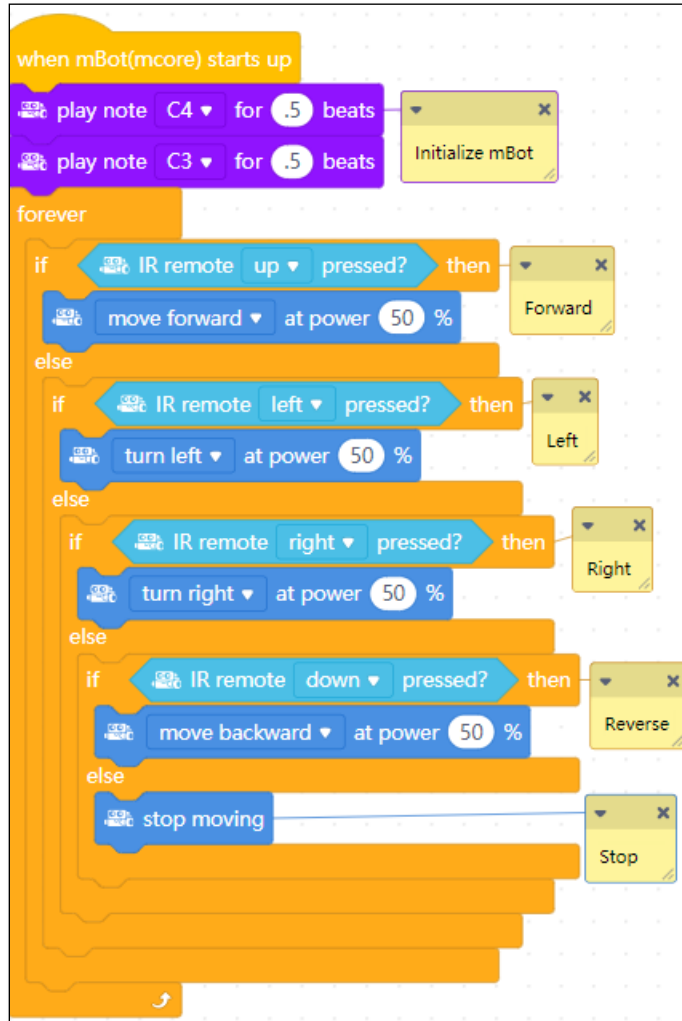
## Requirements

- The robot will move in the direction of the arrow keys on the remote, then stop when the keys are released.
- The nested if then else decision structure only allows one key to be accessed at a time.

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## Tutorial Assignment

1. Start mBlock. Save the program as **Simple Remote Control**.
2. Complete and test the program as pictured with the requirements listed.



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## Assignment

Start with your tutorial project and add the following.

- Use LED's to indicate direction and movement.

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## Assignment Submission

- **All students** → Attach finished programs to the assignment in Blackboard.
- **In class assignment submission** → Demonstrate in person.

- **Online submission** → A link to a YouTube video recording showing the assignment placed in the submission area in BlackBoard.