

# Debugging Challenge – Hopper Mishap



**Explore** – Check out the [Hopper Race](#) lesson and the Color Sensor Tutorial. Build the model and practice coding. Then, try this debugging challenge!



**Debug** – A bug is an error in a program that doesn't allow it to function properly. Debug means to identify and fix the error in a program.



**Extend** - Develop a code and intentionally include a bug. Show your code to a classmate or friend to see if they can debug the program.

**Challenge:** A student added the color sensor to their Hopper. They wanted:

- the Hopper to start the race when sensing green.
- the motor to go forward at full speed after the countdown.
- the hopper to stop the race when sensing red.

The program didn't work. Can you help fix the code to work properly?

