

Debugging Challenge – Big Bus Blunder!



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

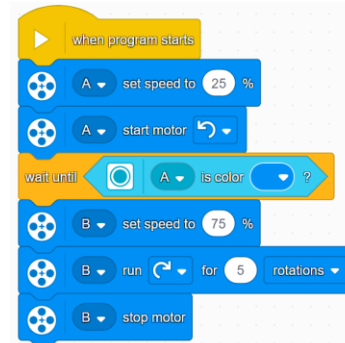
Debug – A bug is an error in a program that doesn't allow it to function properly. Debug means to identify and fix the error in a program.

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 1: A student programmed the Big Bus to speed up when the color sensor recognizes blue then stop after 5 rotations.

This program has bugs!

Can you help fix the code to speed up when sensing blue?



Challenge 2: A student didn't finish their code. They wanted:

- Sensing blue to play a sound.
- Sensing yellow to slow down the motor.
- Sensing red to stop the motor.

Can you help fix the code to work properly?

