

# Debugging Challenge – Arctic Ride Icy Obstacles



**Explore** – Check out [Arctic Ride](#) lesson. Build the model and practice coding. Then, try this debugging challenge!

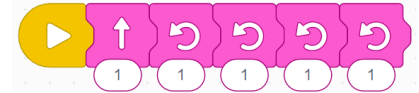


**Debug** – A bug is an error in a program that doesn't allow it to function properly. Debug means to identify and fix the error in a program.



**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 snowmobile to drive in a square shape. They added a turn for each corner of the square, but it didn't work correctly. Can you find and fix the bugs to make the snowmobile follow a square path?



**Challenge 2:** There is an icy obstacle in the path. A student wants to:

1. Drive slowly toward the obstacle and stop
2. Navigate around the obstacle
3. Drive quickly away from the obstacle

Can you find and fix the bugs?

