

Practice Task: Create a coordinate dance for two VEX AIM Coding Robots, where each of the five One Stick Controller buttons activates a different “move”.

Discussion Questions

- What are some of the possible ways two robots could move in a coordinated manner?
- What other features of the robot can you incorporate into dance moves?
- How does the code for each move compare between the sending and receiving robot? Do you notice any patterns?
- What strategies are you incorporating to make troubleshooting and/or error handling easier?
- How are you collaborating between and among groups to make decisions about your projects?

Practice Checklist

- ☐ Brainstorm ideas for the dance
- ☐ Plan projects for both the sending and receiving robots
- ☐ Build and test projects for both robots
- ☐ Iterate until your robot dance is working as intended
- ☐ All group members collaborate to contribute to the projects

Feeling stuck? Build and test your project in small increments - ensure the “move” for one controller button works before moving on to the next.

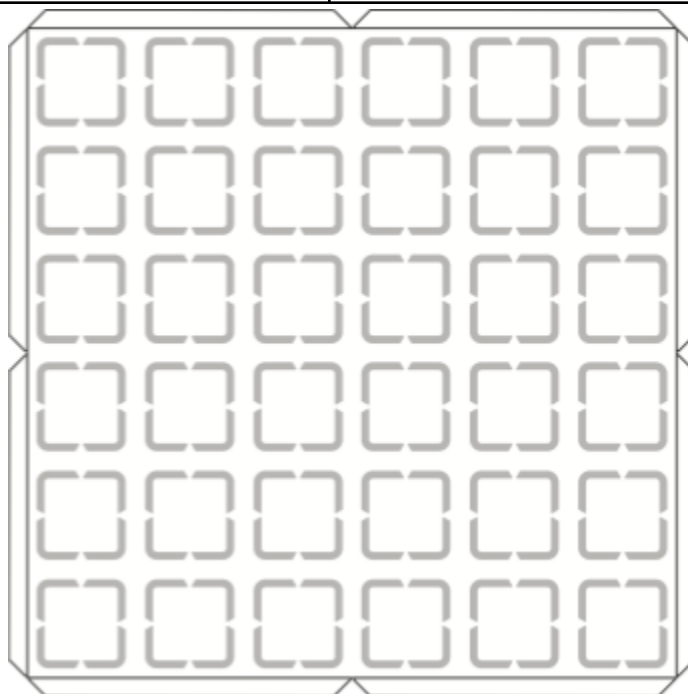
Success Criteria:

- ☐ Your dance routine includes one “move” (a move can be made up of multiple robot actions) for each of the five controller buttons.
- ☐ Both robots are performing coordinated moves throughout the dance routine.
- ☐ Your moves are creative and include elements such as LED’s, sounds, and images.
- ☐ All group members can share how they contributed to brainstorming, planning, and testing the dance projects.

Document Your Practice

Use this space to share your learning. For each controller button, you can write the steps for the robots' actions. You can also plan and draw the robots' paths.

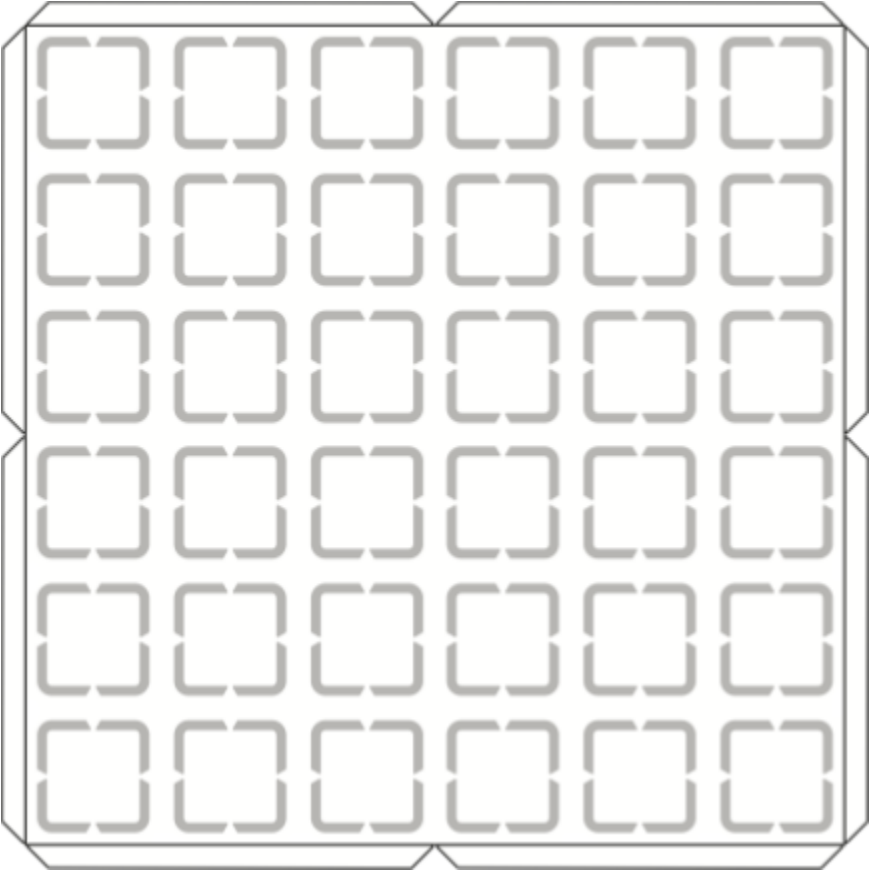
Robot S	Robot R
when controller button  pressed ▼	



Robot S

when controller button  pressed ▼

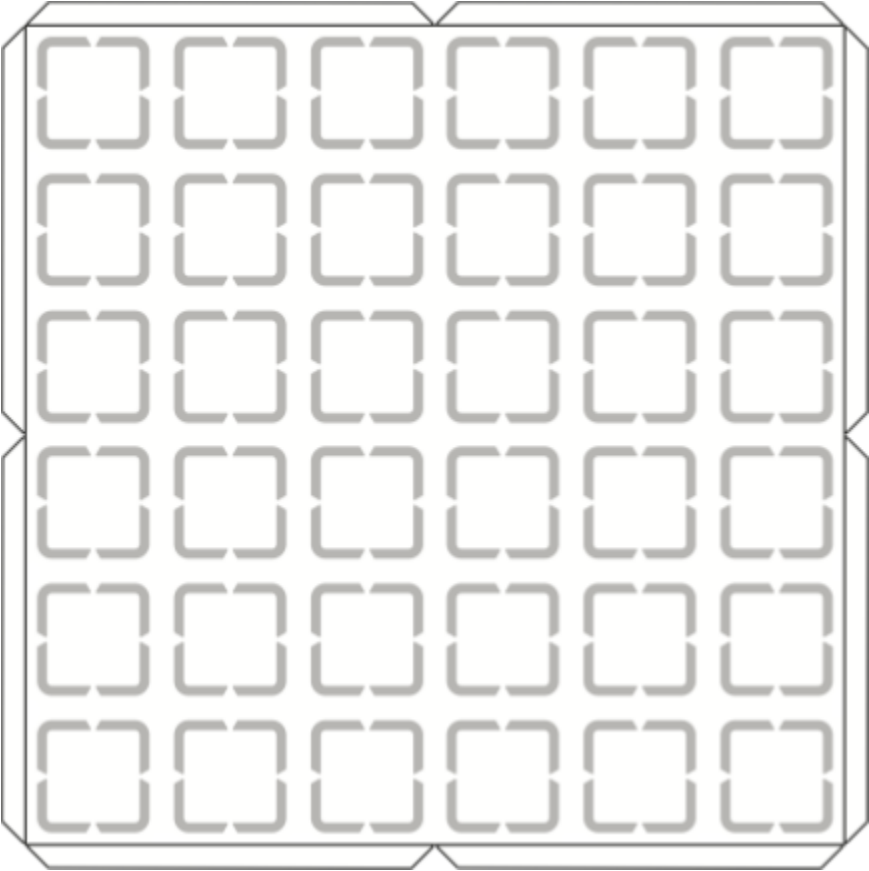
Robot R



Robot S

when controller button  pressed ▼

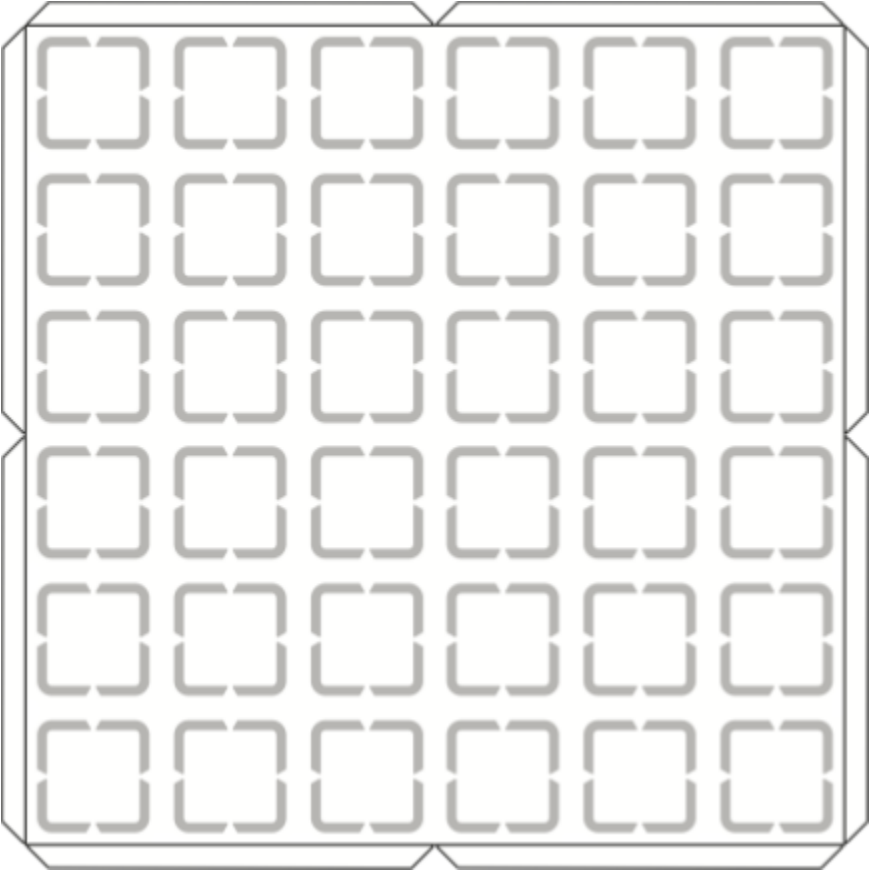
Robot R



Robot S

when controller button  pressed ▼

Robot R



Robot S

when controller button  pressed ▼

Robot R

