**Navigating a Maze Worksheet**

**Answer the following questions related to the program design:**

1. **Define the task you would like to perform:**
2. **Write a set of instructions in English (such as: go forward X inches, turn Y rotations left, etc.) that the robot needs to do to successfully navigate the provided maze structure.**
3. **Are other solutions possible?**

**Answer the following questions related to the EV3 software:**

1. **What are the three choices for the “Direction” option on a Move Block?**
2. **What does “Steering” control? How do you change the steering?**
3. **What does “duration” mean? What is a rotation?**
4. **How many inches does one rotation typically make the robot move?**
5. **Assuming that the steering pointer pulled all the way in one direction, how many rotations is generally a good, 90-degree turn?**
6. **Brainstorm about possible programming solutions and write below the one that your group thinks is a good one.**

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1. **Did you have to “iterate” (make changes to the program, etc.) to make it work?
How many iterations did you have to perform?**