**Wait Program! Worksheet Challenge 1 Solution**

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

1. **Define the task you would like to perform:**

**We want the robot to move forward until it “hears” a noise, then turn left.**

1. **Write a set of instructions in English for creating the program:**
2. **Move forward**
3. **Wait until a noise is heard**
4. **Turn left**
5. **Brainstorm about possible programming solutions below and write the one below that your group thinks is a good one.**
6. **Move forward for unlimited**
7. **Wait until the sound sensor in port 2 perceives a noise greater than intensity >50**
8. **Turn left 90 degrees**
9. **Did you have to “iterate” (make changes to the program, etc.) to make it work?
How many iterations did you have to perform? Briefly explain each one.**

**Answers will vary. *Example answer*: No, the program worked correctly the first time through.**