1. (POGIL) Write an algorithm using the 4 simple commands to navigate the robot through the maze in the POGIL question listed in your online textbook.
2. (POGIL) Write an algorithm using repetition control structures to navigate the robot through the maze referenced above.
3. (POGIL) Include a description or a photo of your drawing of a maze that the general algorithm in the POGIL exercise CANNOT solve.
4. (POGIL) Write an algorithm for washing a stack of 10 items that are cups and dishes mixed together, where the rule is that cups are washed in hot water and dishes in cold water. Use simple commands like **hot\_wash** and **cold\_wash.** You may also use the control structures **IF** and **REPEAT n times**. Identify the parts of your algorithm that are examples of *Sequence, Selection* and *Repetition*.

**Portfolio Reflection Questions**

**Make a copy** of this document in your Portfolio Assignments folder and answer these questions in the spaces below. Once complete, turn in this assignment according to the steps given by your teacher.

[2.3 Algorithm Basics Curriculum Page](https://course.mobilecsp.org/mobilecsp/unit?unit=1&lesson=184)

Answer these questions:

1. (**POGIL**) Write an algorithm using the 4 simple commands to navigate the robot through the maze in the POGIL question listed in your on-line textbook.

**Answer**

|  |
| --- |
|  |

2. (**POGIL**) Write an algorithm using repetition control structures to navigate the robot through the maze referenced above.

**Answer**

|  |
| --- |
|  |

3. (**POGIL**) Include a description or a photo of your drawing of a maze that the general algorithm in the POGIL exercise CANNOT solve.

**Answer**

|  |
| --- |
|  |

4. (**POGIL**) Write an algorithm for washing a stack of 10 items that are cups and dishes mixed together, where the rule is that cups are washed in hot water and dishes in cold water. Use simple commands like **hot\_wash** and **cold\_wash**. You may also use the control structures **IF** and **REPEAT n times**. Identify the parts of your algorithm that are examples of *Sequence*, *Selection* and *Repetition*.

**Answer**

|  |
| --- |
|  |