Programming 1 Name\_\_\_\_\_\_\_\_\_\_\_\_ Date\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Go to this webpage:

https://studio.code.org/s/20-hour/stage/2/puzzle/19

Write a program that gets the zombie to the flower. Copy the code in the space provided then complete the following questions.

1. The function named notFinished() is not clearly named. Think about what the function does then rename this function to make it easier to understand. Write the name here:
2. Sketch a different maze for which the program in puzzle 19 would also work. Make sure to show the zombie and flower.
3. Draw the path the zombie would take in this maze.
4. Sketch a different maze for which the program in puzzle 19 would fail. Make sure to show the zombie and flower.
5. Draw the path the zombie would take.
6. Describe in words the types of mazes that your algorithm works in. In other words, what feature does a maze need to have for your algorithm to work in it?
7. Describe in words the types of mazes that your algorithm fails in. In other words, what feature does a maze need to have for your algorithm to fail in it?
8. Modify your algorithm to work in the types of mazes it previously failed in. Write the code here. Leave space for comments.
9. Lastly, include comments describing the purpose of each loop and if-else statement. Why are these structures needed to make the program work?