Mission 9 Assignment	Name:

Pre-Mission Preparation

In previous missions, you used a list to hold multiple related values. What do you remember about lists:	

Mission 9 Checks

Objective #1 What data type is used to turn on the line sensor LEDs?	
Objective #2 List at least three things you can do in REPL:	
Quiz: List comprehensions and Tuples The command ls.check() returns a tuple. Open the toolbox and learn more about tuples. How do you define a tuple? How do you index an item in a tuple?	
Objective #3 What is the algorithm for the bang-bang controller:	
Objective #4 What code do you need to check if the CodeBot is on a line?	
Objective #5 prev_vals = **None** l What does **None** mean? (Click on the word to open the toolbox.)	
What is the code to print only if **vals** has changed?	

Objective #6 What is the structure of a dictionary?	
What code will lookup a value in a dictionary?	
What happens if a key is not in the dictionary?	
Objective #7 What method is used to get a value while avoiding a KeyError?	
Objective #8 What does "PID" stand for?	
When does an UnboundLocalError occur?	
How do you eliminate the error?	
Objective #9 What constants did you need to modify to run the course?	
Post-Mission Reflection	
Discuss a problem you had with the program. How did you overcome the problem?	
You learned a lot about line sensors during missions 7, 8 and 9. Think of a non-electronic device that would be really cool if it had some kind of line sensing. Describe how it would work:	