AP CSP Python with Robots **Lists with CodeBot Assignment**	**Name:**
Introduction	
During this assignment, you will create a new program that uses a list in three ways. You will apply this skill by modifying a previous program.	
Warm-Up	
What is the list **detected** used for in the ***CheckLines*** program? What is the data type of the values?	"detected" is a list of Boolean values that track if a line was detected by a line sensor. It has 5 values, one for every line sensor. The data type is Boolean.
What are the list **sensors** used for in the ***LineFollow1*** program? What is the data type of the values?	"sensors" is a list of integers that hold the readings from each line sensor. It has 5 values, one for each line sensor. The data type is integer.
Examples and Challenge	
Use this space to take notes about the code for example #1.	Notes for example #1
Use this space to take notes about the code for example #2	Notes for example #2
Use this space to take notes about the code for example #3	Notes for example #3
What modification did you make to the SweepLEDs program?	Students indicate how they used a list in SweepLEDs (accessing by index or random values in a list)
Wrap-Up	
What did you learn about using a list in a CodeBot program?	Answers will vary.
How does using a list manage complexity? Think about how your program would be different if you didn't use a list? How is it easier to work with when you use a list?	Answers will vary. An answer can include that a list makes it easier to get a random value for the frequency, or helps you map a frequency with a count without having to use a lot of variables. A list can also have a variable length because you can add or delete elements.
Submit your completed ***PythonLists1*** and modified ***SweepLEDs*** programs to the teacher.	