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| **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? |  | |
| What is the list **sensors** used for in the ***LineFollow1*** program?  What is the data type of the values? |  | |
| **Examples and Challenge** | | |
| Use this space to take notes about the code for example #1. |  | |
| Use this space to take notes about the code for example #2 |  | |
| Use this space to take notes about the code for example #3 |  | |
| What modification did you make to the SweepLEDs program? |  | |
| **Wrap-Up** | | |
| What did you learn about using a list in a CodeBot program? |  | |
| 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? |  | |
| Submit your completed ***PythonLists1*** and modified ***SweepLEDs*** programs to the teacher. | | |