

AP CSP Python with Robots For Loop Practice Assignment	Name:
Introduction	
<p>During this assignment, you will apply for loops by modifying three previous programs. You will also add a list of tuples and traverse the list to play a song.</p>	
Warm-Up Reflect on the programs you created and modified during this unit.	
How is a for loop similar to a while loop?	Answers will vary. Answers can include: they both are forms of iteration, they both have a counter-type variable used in the condition to control the iteration, they both perform tasks in the iteration block.
How is a for loop different from a while loop?	Answers will vary. The answer should include that the for loop counter is built-in to the structure and doesn't need to be defined in advance. It automatically increments. It has a range.
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
Use this space to take notes about the code for example #4.	Notes for example #4
What remix project did you select for the challenge? How did you modify the program?	Answers will vary. They could have modified Remix 1, Remix 2 or Remix 3. This was a challenge, so all students might not have gotten this far.
Wrap-Up	
What is a tuple?	A list that you can't change; it is immutable. Defined with parenthesis ().
When will a for loop be used in code?	Use a for loop when you want to repeat a block of code and you know in advance how many times it will repeat; you know the range.
What is something you learned during this lesson?	Answers will vary.
<p>During this lesson you modified the LineSense, WhatIf and SweepLEDs programs. For the challenge you modified a remix project. Submit the required programs to the teacher.</p>	