AP CSP Python with Robots Lists #1 Activity Guide		Name:				
Warm Up: Answer the questions, either individually or in a group.						
Pre-work:	What are some lists you use in your daily life?		Song playli	ill vary, but can include: sts; phone contacts; grocery list; assignments; class schedule, etc.		
	What is a variable?			ill vary; is like a box with a label for storing ned memory location; etc.		
	What is a limitation of a variable?		It can only store one value at a time.			
Warm-up: Pick any topic that interests you, or use your daily activities. Write a to-do list: (add bullets as needed)	Answers will vary. An example of daily activities: Brush teeth Eat breakfast Take a shower Walk to school					
Code Tracing Activities: Write the	result of each code	e traci	ng activity.			
Code Tracing A	alist = [20, 5, 6, 1, 7]					
Code Tracing B	blist = [4, 10, 5, 11, 9, 1]					
Wrap Up: Write the definitions in you	r own words. Ther	n com	plete the co	de tracing activities.		
Students should use their own words fo answers should be different.	r the definitions. T	he so	lutions belov	v are from the presentation, so student		
What is a list?	 A list is an ordered collection of elements (items). A list is like a variable that can hold one or more values. 					
What is an index?	The number used to reference an item in a list (the position in the list)					
What are elements?	Individual values in a list; each referenced with an index					
What is the list length?	How many elements the list contains					
What are some list methods?	Append, insert, pop					
What is the first index of any list?	0					
What is the last index of any list?	len(list) - 1					
Given the list, indicate the value of each element. myNumbers = [32, 64, 33, 0, 15, 26, 31]	myNumber[0]			32		
	myNumber[1]			64		

	myNumber[3]	0
	myNumber[6]	31
	myNumber[7]	Index out of range error
What will be displayed after the code segment is run?	<pre>myList = [15, 33, 25] myList.append(13) myList.append(myList[0] + myList[3]) What are the final elements of myList? [15, 33, 25, 13, 28]</pre>	