Computer Science 1	Exercises 13.03-05	Date:
Name:		Period:

- 1. What does the **len** function return?
- 2. Both the **append** command and the **insert** command will add a new item to an array. How are these 2 commands different?
- 3. What do the **index** and **remove** commands do if the item to be found or removed exists in the array more than once?
- 4. What happens if you attempt to remove an item that does not exist from an array?
- 5. What happens if you attempt to find the index of an item that does not exist in an array?
- 6. Refer to your answer to the previous two questions. How can you prevent this from happening?
- 7. Use an array to shorten this command:

- 8. Both the **remove** command and the **del** command will remove/delete an item from an array. How are these 2 commands different?
- 9. Look closely at the names array in ArrayCommand13.py.
 In this array, "John" is at index 0 and "Heidi" is at index 3.
 Why is it that when the commands del names[0] and del names[3] are executed, "Heidi" is still in the array?
- 10. List 2 things that **pop** can do that **del** cannot.

11.	from the list, except for "John" and "David".
12.	Refer to the previous question. Can pop do this?
13.	When working with Python arrays, what command does the same this as the += operator?
14.	What happens when you use the sort command on an array of strings?
15.	What happens when you use the sort command on an array of numbers?
16.	What do you need to do to sort an array of numbers in <u>descending</u> order?
17.	How is the sorted command different from sort ?
18.	Look at program ArrayCommands21.py and its output. Even though the sort command was used with the animals array, the output looks weird. What causes this?
19.	Refer to the previous question. How do you fix this problem?
20.	Look at program RandomArrays01.py . Change one statement in the program to make it store random 4-digit numbers instead of random 3-digit numbers?
21.	Look at program RandomArrays02.py . This program displays random sentences. How is that possible?
22.	Is the foreach loop able to <u>display</u> the content of an array?
23.	Is the foreach loop able to <u>alter</u> the content of an array?