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Exercise: Lists

Summary

Demonstrates some of the basic operations on lists in Python.

Deliverables

Your finished repository should have one new script, oath.py, that performs the steps below.

Instructions

Create a new script called oath.py that does each of the following steps. Although it's not required, you may want to include some additional print calls to describe what's being printed in places (see demo.py for examples).

- 1. Create a list called oath set to first seven words of the Athenian Oath in lower case. In case you don't know it, those words are: we will ever strive for the ideals. To be clear, oath should be a list of strings for the individual words, which would look like ["these", "three", "words"], rather than a single string, which would look like "these three words".
- 2. Print oath.
- 3. Use the len() to count the number of words in oath and then print a message that says The length of the list is: followed by a line with the length.
- 4. Create a new variable called strive_str by using the join() call to put the elements from 3 to the end of oath together. Remember that the first element of a list is 0 so element 3 is actually the fourth item.
- 5. Print a message that says The passage is: followed by the contents of strive_str on the same line.
- 6. Use the append() call to add one word, "and", to end of oath and print the updated version of the list.
- 7. Create a string more_oath_str equal to "sacred things of the city" and then use split() to turn that into a list called more oath. Then print that out.
- 8. Use the extend() call to add more_oath to the end of oath and then print out the updated version of oath. 1. Build oath_str by joining oath with spaces. Then print oath_str out.
- 9. Use the sorted() call to create a new list called sorted_oath that is sorted in alphabetical order. Then print sorted_oath.
- 10. Create a list called yoda that consists of one word: ["code"]. Then extend it with the last three words of sorted oath.
- 11. Finally, join yoda with spaces and print the result out. If all has gone well it should look like a statement about the course.

If you aren't sure how to do some of these things, have a look at demo.py for some examples.

Submitting

Once you're happy with everything and have committed all of the changes to your local repository, please push the changes to GitHub. At that point, you're done: you have submitted your answer.

Tips

- You'll probably find you use split() and join() a lot: they're very useful for dealing with text.
- A handy way to get rid of extra spaces in input text (say two or more spaces when you'd really like to have exactly one) is to split the string and then join the words back together.