

## Homework #17 List Comprehension.

### Tasks:

1. Use the following string: `mystr = "I love bread!"` How would you generate a list showing the number of characters in each word in the string? In other words, your result should be a list `[1, 4, 6]`. Try to do this without using `map(lambda)` and list comprehension. Test your function on other strings as well.
2. Now complete Task 2 using the `map(lambda)` approach.
3. Now complete Task 2 using the list comprehension approach.
4. Create a list that contains all number between 0 and 100 which contain number 7. Use list comprehension. Your new list should look like this: `[7, 17, 27, 37, 47, 57, 67, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 87, 97]`.
5. Complete Task 5 using the `filter(lambda)` approach. See class notes for an example of using `filter(lambda)`.