Advanced Functions Test Solutions

For this test, you should use the built-in functions to be able to write the requested functions in one line.

Problem 1

Use map to create a function which finds the length of each word in the phrase (broken by spaces) and return the values in a list.

The function will have an input of a string, and output a list of integers.

Problem 2

Use reduce to take a list of digits and return the number that they correspond to. *Do not convert the integers to strings!*

Problem 3

Use filter to return the words from a list of words which start with a target letter.

```
In [9]: def filter_words(word_list, letter):
return filter(lambda word: word[0]==letter,word_list)
```

Problem 4

Use zip and list comprehension to return a list of the same length where each value is the two strings from L1 and L2 concatenated together with connector between them. Look at the example output below:

Problem 5

Use enumerate and other skills to return a dictionary which has the values of the list as keys and the index as the value. You may assume that a value will only appear once in the given list.

Problem 6

Use enumerate and other skills from above to return the count of the number of items in the list whose value equals its index.

Great Job!