Assignment 2

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How to run:

The programs can run in terminal with the «python» command followed by the filename.
1: Open terminal and navigate to the location of the python files. (uses cd <folder>)
2: Type in <python/python3> <filename.py>. Example «python3 task3.py».
3: Run task3.py as this is the test class and contains all the instances of StringClass and StringListClass.

If unsure, please watch the video from allthingseducational on youtube.

My example output

```
Testing String Class
Testing Initialisation of String
[                                                              ]

Is new String equal to String "tester"?
True

Is there 3 a's in bananas?
True

There are no f's in bananas?
True

Does bananas contain a?
True

Does uppercase turn bananas to BANANAS?
True

Does lowercase turn BABANAS to bananas?
True

Check if tokenise generates the correct list for bananas when n is the delimiter.
"ba" is in token list
"a" is in token list
"as" is in token list

*******
Testing StringList Class

Testing Initialisation of List
Instantiation test successful

Is new String list length 0?
True

Test addition
List contain both nope and tester?
True
True

Test remove
Is list of two of the same string empty after one remove?
True

Is the maximum size the same as the original?
True

Test sort
Is list dcba now abcd after sort?
True

Test search
Does a exist in list via search
True

Does search fail to find 'f' in list?
True
```

Assumptions

Based on the output given at Moodle, it says that the length of an empty StringListClass instance should return 0 if no StringList instances is added. The __len__ method of StringListClass in this case return the number of instances found, and not the size allocated to the list in the StringListClass __init__ method.