

Tiny Practical Final

Time limit: 20 minutes

Question 1

(10 fake marks) Suppose the file `sample_imports.txt` contains a list of Python `import` statements like this:

```
import time
import random
import turtle
import doctest
import turtle
import time
```

For simplicity, assume that every line is an `import` statement formatted as in the example. There are no blank lines or extra spaces around the words.

Write a **program** that reads `sample_imports.txt` and prints the imports in *sorted order*, and with any *duplicates removed*. For example, the above file gets printed like this:

```
import doctest
import random
import time
import turtle
```

Of course, `sample_imports.txt` should work with any file of imports, not just the one in the example.

Question 2

(10 fake marks) Write a function called `string_sort(str_list)` that takes a list of strings as input and returns a copy of `str_list` sorted by length, from smallest to biggest. Strings of the same length should be sorted alphabetically. For example:

```
>>> string_sort(['dog', 'or', 'a', 'cat'])  
['a', 'or', 'cat', 'dog']
```