SelfAssessment11_3

November 9, 2015

1 Exercise 11.3:

Print out all the names of `.tif` files in a folder. Also print out the names of the two `.tif` files with largest and smallest size.

[Hint: you will need to get the size of each file and keep track of the largest and smallest value encountered. Don't worry about ties for this exercise]

Answer appears after one blank page (so you don't peek).

Are you sure you're ready to peek?

2 Possible Solution

```
In [ ]: import os

        fileNames = os.listdir('.')

        #  We'll make a list of filenames and file sizes so we can
        #  sort through them later:
        tif_sizes = []
        tif_names = []

        # If a file ends with the TIF extension then add it to the list:
        for i in fileNames:
            if i.endswith('.tif'):
                tif_sizes.append(os.path.getsize(i))
                tif_names.append(i)

        if len(tif_files) > 0:
            print "There were", len(tif_files), "files found:\n",'\n'.join(fileNames)
            print "*************************"
            print "The biggest file was", tif_names[tif_sizes.index(max(tif_sizes))]
            print "The smallest file was", tif_names[tif_sizes.index(min(tif_sizes))]
        else:
            print "No TIF files found."
```