

Sorting

Counting steps in another algorithm

Requirements

Create file in python with a **comment** containing the academic honesty pledge as shown below. Add another, separate comment to the file containing your name

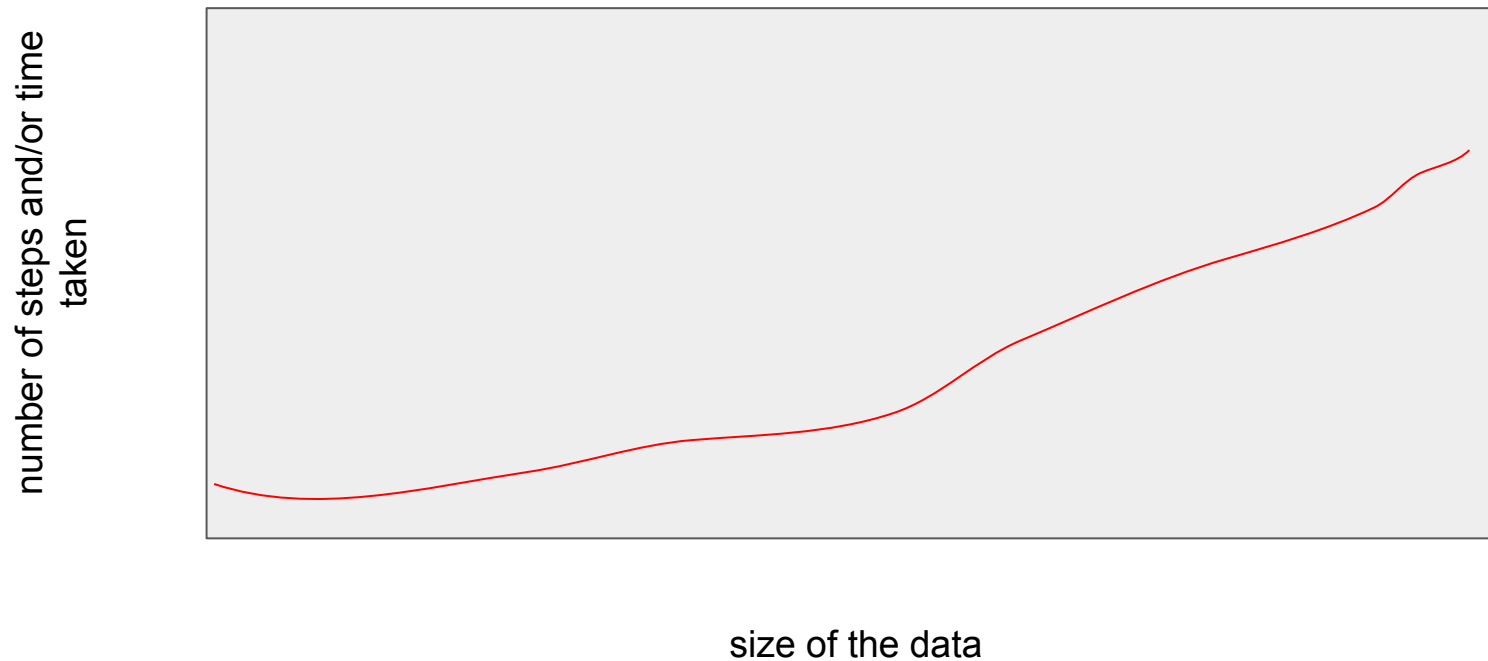
- Write python code that generates datapoints as described. There needs to be at least **200** different points for each line. Use sizes like 10000
- Attach your python source in using the dropbox link in cobra learning.
- **Attach the graph you created**

```
# I honor Parkland's core values by affirming that I have  
# followed all academic integrity guidelines for this work.  
  
# your name
```

Data generation requirements

- You must use the **QUICK sort** as from the class text.
- You need to generate a line graph:
- You should count the array accesses carefully.

Output sample



csv files can be read directly into excel

10, 123123

13, 243952

16, 372614

How to count the number of steps recursively

quicksort needs to return the count.

In quicksort:

- when the list is empty, return 0
- set count to zero
- the count is the sum of
 - the return value from the left
 - the return value from the right
 - the current count
- return the new count