ENSF 338 Lab 3

Group 35

Exercise 4

In class we have discussed how quicksort’s worst case complexity is O(n 2 ), but its average-case complexity is O(nlogn)

1. Derive the formula for worst-case complexity [0.4 pts]

**Answer**:

3. Run an implementation of quicksort on a number of inputs of increasing size which incur worst-case complexity [0.2 pts]

**Answer**:

4. Plot the results, together with appropriate interpolating functions and discuss your results: do they match your complexity analysis? [0.2 pts]

**Answer**: