

Benha University

Computer Systems Engineering

Electrical Engineering Department



Faculty of Engineering (at Shoubra)

Semester Project

Problem Statement:

Using your preferred programming language, implement and simulate different sorting algorithms taught during *Advanced Algorithms* course.

Deliverables (in electronic form**)**:

- 1. Complete source code (in a ready to work state)
- 2. Running time vs. problem size
 - a) Best case
 - b) Average case
 - c) Worst case
- 3. Justification of simulation results compared to asymptotic notation
- 4. Estimation of hidden constants in asymptotic notations from simulation results

Due Date:

The same day as the final exam.

Grading:

20 marks.

Good Luck Dr. Islam ElShaarawy