

# COMP-160, Homework 0

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1. **What is your name?** Benjamin Tanen
2. **Are you in SoE, A&S, other?** School of Engineering
3. **Are you an undergrad, grad, postbac, other?** I am an undergraduate, class of 2017
4. **Have you taken an algorithms class before?** None
5. **Have you taken COMP-170?** I am currently enrolled in COMP-170
6. **Have you taken both prerequisites: COMP-61 and 15?** Yes

Self-Evaluation Topics:

1. **Logic:** 8 (From COMP-61 and other math courses)
2. **Induction:** 8 (From COMP-61, COMP-105, and other math courses)
3. **Recursion:** 9 (From COMP-15, 61, 105)
4. **Big-O notation:** 7 (From COMP-15)
5. **Random variables and expected value:** 8
6. **Heaps and heap sort:** 5 (From COMP-15)
7. **Quick sort:** 6 (From COMP-15)
8. **Merge sort:** 6 (From COMP-15)
9. **Binary trees:** 8 (From COMP-15, 61)
10. **Hashing:** 7 (From COMP-15)
11. **Graph basics:** 8 (From COMP-15, 61)
12. **Dijkstra's algorithm:** 7 (From COMP-15)

**Class Expectations:** I am expecting to get a better understanding of the complexity associated with computational algorithms, how to calculate this, and how to write and improve algorithms for use on my own.