

Supplementary Homework 1

Required for honors section only!

Compile the three programs **Logic1.java**, **Logic2.java**, and **Logic3.java**.

Answer the following questions:

1. How big (in bytes) is each “.class” file? Is one file much smaller than the others?
2. Compare **Logic1.java** to **Logic2.java**. Why is one executable smaller than the other? What did the compiler do? Write a short answer. Your answer should use the word “satisfiability”. Justify your answer using a truth table.
3. Compare **Logic1.java** to **Logic3.java**. Are the resulting class files similar in size? *Should* they be similar in size, or should the compiler have made one of them smaller? Write a few sentences, and justify your answer with a truth table. Remember: think about satisfiability!