

Quiz 2

Your name: \_\_\_\_\_ Your UVa Email ID: \_ \_ \_ \_ \_

**Honor policy:** For this quiz, you must work alone, and may not use any resources other than your own brain and body, the pencil or pen you use to write your answers, and this sheet of paper.

1. The purpose of Charles Babbage's *Difference Engine* (his first major machine described in Chapter 4 of *The Information*) was to: (check the **one best answer**):

- Solve Differential Equations, useful for computing ballistic tables**  
 **Generate Logarithmic Tables, important for calculations needed to navigate ships**  
 **Generate Odds Tables, for use in horse racing betting**  
 **Generate Taxation Tables, important for the Treasury to collect revenues**

2. According to Chapter 4 of *The Information*, August Ada Byron King: (**check all that are true**)

- Was a mathematical prodigy who studied Euclid in her youth**  
 **Was obsessed with a pegboard puzzle game** (similar to the one described at the end of Chapter 5 of the course book)  
 **Wrote the first published computer program**  
 **Found programming to be easy and effortless**  
 **Devised a recursive algorithm to compute Bernoulli numbers**

3. According to the Problem Set 1 Comments, the first "scientific" thing a kindergartner learns in school is: (check **one**)

- Gravity makes you fall**  
 **The primary colors are red, blue, and green**  
 **How to add by counting**  
 **A lie**

4. Chapter 6 of the course book explains how to perform simple logical operations using: (circle one)

**Beer**      **Cells**      **Electricity**      **Tinker Toys**      **Water**      **Wine**

5. According to Chapter 6 of the course book, what are the three things we need to model to model a computer?

\_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

This is the end of the graded part of the quiz.  
If you have more time, go on to the **ungraded** questions on the back.

