

# AP Computer Science Principles Summer Assignment

## *Blown to Bits*

### *Chapter 3: Ghosts in the Machine: Secrets and Surprises of Electronic Documents*

1. Read Chapter 3 of *Blown to Bits*. This chapter is 35 pages long and is available here: <http://www.bitsbook.com/wp-content/uploads/2008/12/chapter3.pdf> . There are a lot of new ideas in the chapter, so set aside at least 45 minutes and possibly as many as 3 hours, depending on your reading speed. The entire book is available for download at <http://www.bitsbook.com/> in case you decide you want to read the whole thing!
2. Write a 3-2-1:
  - a. Describe three things you learned. Do not just list the topics! Explain three things you learned from the reading, as if you were trying to pass this knowledge along in your own words.
  - b. Formulate two questions inspired by the reading.
  - c. Tell me one thing that surprised you, amused you, or fascinated you in the reading.
3. Answer the following questions:
  - a. The text is 10 years old now. Identify at least one situation described in the chapter that has been overtaken by new technology in the years since the book was first published.
  - b. When a hard drive is erased, are its contents really gone? What happens when a file is deleted? What happens when you “empty the trash” on your computer?
4. Do the Quizlet **matching** exercise vocabulary review linked below and take a screen shot (you can use your Snipping Tool if you have Windows) showing your best time.  
<https://quizlet.com/99433609/blow-to-bits-chapter-3-vocab-flash-cards/>