

CS280-001 Final 2010-10
D. Hepting
Monday, April 19, 2010 – 09h00 CL317

Fill out the front page of the booklet *completely*. Return this sheet with your exam booklet. Answer all questions in the exam booklet, 2 questions per page side. Label the questions in the following way:

Line	Label
1	$((2 * \text{page_number}) - 1)a$ [on page 1, 1a]
6	$((2 * \text{page_number}) - 1)b$ [on page 1, 1b]
11	$((2 * \text{page_number}) - 1)c$ [on page 1, 1c]
16	$(2 * \text{page_number})a$ [on page 1, 2a]
21	$(2 * \text{page_number})b$ [on page 1, 2b]
26	$(2 * \text{page_number})c$ [on page 1, 2c]

Question 15 should be midway through page 8. Use page 9 for Question 16 and page 10 for Question 17. The back page should be blank.

If you do *all* these things, you will earn 3 bonus marks (no part marks). 3 marks! Just think of these instructions as Question 0.

I've given you an extra exam booklet for rough work, doodling, etc. – you don't need to return it. I've made the instructions more explicit this time both to encourage you to keep to the sentence limits I've set and to answer all parts of the question (in part 1).

Remember that you must pass the final to pass the class.

Lastly, I will not answer questions about any of these questions during the exam.

Part 1. 3 marks x 15 = 45 total. For each question below, do: a) identify the context for this question in our class (1 mark, 1-2 sentences); b) answer the question itself (1 mark, 1-2 sentences); and c) provide a reasoned personal value judgment about the concept (1 mark, 1-2 sentences).

1. If all the issues we face in cyberspace today are merely the same old problems in a new context, is there any special cause for concern?
2. Why is the Patriot Act, from the United States, a matter of concern to Canadians?
3. Is it true that, “on the Internet, nobody knows you're a dog”?
4. What is the need for the “Creative Commons”?
5. Is there any justification for copying of copyrighted material from the internet?

6. Does the internet make crime easier?
7. How can we trust people we encounter over the internet?
8. How did Y2K affect the now-common practice of outsourcing code development?
9. What are impacts of our being connected to work, wherever we go?
10. What can computer scientists contribute to the discussion of climate change (modelling)?
11. Do we pay enough attention to the “digital divide”?
12. Could we survive without computers?
13. How much faith should we put in the answer we get from a computer?
14. Why is Value Based Software Engineering (VBSE) concerned with ethics?
15. What is your responsibility to all the people in the world who use “password” for their password?

Part 2. 6 marks x 2 = 12 marks. Clearly present your reasoned responses to the following, each on 1 exam booklet page side.

16. First of the 8 principles of the Software Engineering Code of Ethics and Professional Practice (v5.2, <http://www.acm.org/about/se-code>) is “PUBLIC - Software engineers shall act consistently with the public interest.” It goes on to give more detailed examples of what software engineers shall undertake, as appropriate. Here is one example:

1.03. Approve software only if they have a well-founded belief that it is safe, meets specifications, passes appropriate tests, and does not diminish quality of life, diminish privacy or harm the environment. The ultimate effect of the work should be to the public good.

If you are a developer for <http://blippy.com/> (the “fun and easy way to see and discuss what everyone is buying”), do you have any qualms about working there? Explain.

17. Is Web 2.0 more than a fad? Why or why not? Has this class changed your opinion? Give examples.

*Thank you for taking part in CS280 this semester.
Good luck with the rest of your exams.*