CSE303 Autumn 2009 Final Examination  
December 15, 2009

- 120 minutes.
- Open notes, open book.
- Closed any kind of electronics (including calculators and cell phones)
- Closed neighbor.
- Better legibility makes for happier graders.

<table>
<thead>
<tr>
<th>Part I (social implications)</th>
<th>Maximum Points</th>
<th>Earned Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part II (C pointers)</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Part III (preprocessor, make, svn)</td>
<td>50</td>
<td></td>
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<tr>
<td>Part IV (C++)</td>
<td>15</td>
<td></td>
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<tr>
<td>Part V (miscellaneous)</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>Total</td>
<td>25</td>
<td>120</td>
</tr>
</tbody>
</table>

Preparation notes:

- The low-level details (exact point counts, etc.) might change; the high-level parts, timing, etc. will not change.
- The detail you should know for each part varies: for example, you are expected to know much more for Part II (C pointers) than for Part IV (C++).
- You can take 2 hours 15 minutes maximum – a little less than 1 point/minute.
Part I: Social Implications

1. [8 points] Intellectual property.
3. [6 points] Professional obligations.

Part II: C Pointers

1. [10 points] Short answer questions.
2. [20 points] Read a program and answer questions about it.
3. [20 points] Write a piece of code.

Part III: Preprocessor, make, svn

1. [5 points] Preprocessor
2. [5 points] make
3. [5 points] svn

Part IV: C++

1. [5 points] References, pointers, parameter passing, etc.
2. [5 points] const

Part V: Miscellaneous

1. [5 points] Bit manipulation
2. [5 points] Heap/memory management
3. [5 points] Casting
4. [5 points] Shell vs. C vs. C++
5. [5 points] TBD