

CS 100 Fall 2015

Quiz 1

Name (legibly printed): KEY

This is an in-class quiz. Notes and calculators are not permitted. Answer all questions on both the front AND the back of this quiz page.

1. True or False [50, 5 points each]. Circle either T or F in answer to each question.

- T or F Mark Andreessen believes that we are in the middle of a dramatic and broad technological and economic shift in which software companies are poised to take over large swathes of the economy.
- T or F A computer must contain electronics.
- T or F *Sorting* refers to the job of a hat in a story about a kid who goes to boarding school for magic, but has little to do with computing.
- T or F The "genius programmer" who works alone and produces amazing software is a myth.
- T or F Today's engineer should focus solely on problem solving and should avoid learning about communication and story telling.
- T or F The power of parallel computing comes from the extra speed gained by immersing circuits in fluid and organizing them in parallel lines.
- T or F Overstating your GPA by a few points is a great way to get an opportunity to talk to a potential employer.
- T or F Scale, or "how to manage complexity", used to be a central intellectual challenge of computing but has been solved for a long time.
- T or F Many software companies are converging with media companies and are rapidly assuming traditional mass media goals.
- T or F The interactive user interface is another example of how the digital image is at the center of the transformation of mass media.

2. Multiple Choice [50, 5 points each] Circle your answer.

- Which decimal value below is the correct equivalent of 0x32 ("32" hexadecimal)?
 1. 32
 2. 48
 3. 50
 4. 64
- Which is NOT a reason why Computing Science is a great major, as presented in class?
 1. Long history
 2. Intellectual challenge
 3. Constant change
 4. Interdisciplinary
- "In a hierarchy, every employee tends to rise to his level of incompetence." This is a statement of
 1. Moore's law
 2. The Simplicity Theory
 3. The Peter Principle
 4. The Mean Value Theorem
- The "Teem Geek" book identifies three pillars for teamwork, abbreviated HRT. What does that stand for?
 1. Humility, Respect, Transformation
 2. Humility, Respect, Trust
 3. Honesty, Respect, Trust
 4. Honesty, Respect, Transformation
- Remembering that the ASCII value for "A" (capital 'A') is 65 (decimal), what is the ASCII value for "T" (capital 'T')?
 1. 81
 2. 82
 3. 83
 4. 84
- What is NOT one of the three basic areas of computer science?
 1. Graphics
 2. Foundations / theory
 3. Systems design / engineering
 4. Applications
- "Lose the ego" and "be a catalyst" are examples of leadership _____?
 1. Antipatterns
 2. Patterns
 3. Goals
 4. Tips and tricks
- What is 2 raised to the 8th power, written as a binary number?
 1. 11111111
 2. 01000000
 3. 10000000
 4. 100000000
- The UPS "Worldport" is in what city?
 1. Lexington, KY
 2. New York City
 3. Louisville, KY
 4. Phoenix
- The power of the Unix Model - which is also a "big idea in CS" - is to use
 1. Hierarchical abstraction
 2. Compositionality
 3. Sorting
 4. Peano's axioms