

**Final exam time and location:** Friday, May 18, 2-4:30pm, Phillips Hall 219.

**Topic coverage and format:** The exam is comprehensive: it covers the entire semester (all lecture material, homework, solutions, and readings) and is worth 20% of your grade. We will assume you have thoroughly understood the lectures and the homework problems and carefully read our solutions sets (note that the solutions often discuss ways to think about the problems and include additional general comments about the course material). As always, back copies of the handouts are available in the racks outside of Upson 303 (if they are out, ask in Upson 303 for more copies), and most lecture aids are available at the course website as well.

You may bring *four* 8.5" × 11" sheets of paper, on which you have written or printed whatever you please on both sides, for consultation during the exam. No other references, nor calculators or other objects of that ilk, are to be used.

In previous years, there have been around 12 questions, and the exams were designed to be do-able in two hours (i.e., 30 minutes less than the time allotted). Attached are questions from previous final exams, and following them, solutions thereunto. We can make no guarantees as to the representativeness of these questions in terms of coverage, level of difficulty, and so on for this year's exam, but of course you know that these were problems that were actually posed in the past.

**Homework Six return (note different protocol):** The graded Homework Sixes will be available for pickup starting Wednesday May 9th at 2pm. Once available, you can get them ...

- Wednesday May 9-Tuesday May 15: go to *Upson 360* Monday-Friday 10am-noon or 2-4pm: the procedure is that you present ID to the attendant in the room and ask for your "CS 172" homework (the attendants may not know about "COGST 172", "ENGRI 172", or "INFO 172").
- Wednesday May 16-Thursday May 17: go to any of the scheduled office hours (see reverse).

The solutions will be attached to your homework.

**Gradekeeping verification:** If you wish to verify that our records with respect to your grades are correct, please submit *by Tuesday May 15th* in hardcopy (we are prohibited from dealing with most grade information via email) at an office hour a list of the grade your records indicate you received on *every* homework part (keep scores for the parts separate!) and exam. Put your name and netID on the list, and *keep a copy* for yourself. We will send you an email telling you whether your records match ours.

A form which you can download and enter this information on is available at [www.cs.cornell.edu/courses/cs172/2007sp/gradecheck.pdf](http://www.cs.cornell.edu/courses/cs172/2007sp/gradecheck.pdf).

**Post-lecture announcements** Any official course announcements will be sent via email.

**Office hours schedule:** The office-hours times and locales (all in Upson Hall unless otherwise noted) for the next two weeks are somewhat different than usual, and are as follows (with the final itself thrown in for good measure). This information is also available at [www.cs.cornell.edu/courses/cs172/2007sp/calendar.htm](http://www.cs.cornell.edu/courses/cs172/2007sp/calendar.htm).



**Notes regarding the attached solutions:**

- For problem 1, pretend that the circles are triangles pointing upwards and the squares are triangles pointing downwards.
- Ignore the solution to problem 5 — we didn't cover this material this year.
- For problem 7, "WeightedCounts" was renamed "TempTr" this year.
- Here's the solution to problem 9: the inference cannot be made, because the second state listed is a "prediction" state; it could be that, for example, the first two terminals of the sentence being parsed are "a a". A "one-state fix" would be the alteration of the "prediction" state to  $(X \rightarrow \bullet ab, 1, 2)$ .