

CSI 201 — Computer Science I, Fall 2005

Handout #18 - Tuesday, November 8, 2005

1. Quiz today
2. HW #8 due today
3. Exam #3 November 17
4. string types - character arrays (p368)
5. the get function p383
6. the putback function p389
7. string functions 390-391
8. Recursion Worksheet
 - (a) At what value does factorial give a stack dump?
 - (b) What is the output of factorial(12)?
 - (c) What is the output of factorial(13)?
 - (d) What is the output of factorial(14)?
 - (e) Explain what is going on in the above.
9. **Extra Credit #3:** due Thursday November 10, Write a recursive function for the Fibonacci sequence (problem 1 on page 606). They give the formula for the Fibonacci sequence as $F_{i+2} = F_i + F_{i+1}$ for $i = 0, 1, 2, \dots$, however, The formula may also be written as $F_j = F_{j-1} + F_{j-2}$ for $j = 2, 3, 4, \dots$