CS 565 Out: February 27, 1997
Jens Palsberg Due: March 6, 1997

Homework 6:

Converting to Imperative Form

Consider again Homework 5; it has nine problems. For each one of these problems, find your solution to that problem, and complete the three tasks listed below. Grading:

- Finish all three tasks for Homework 5, problem 1: get 25%.
- Finish all three tasks for Homework 5, problem 1–2: get 50%.
- Finish all three tasks for Homework 5, problem 1–4: get 100%.
- More than that: extra credit.

1. Complete the process of transforming a function to first-order form by converting the continuations in the CPSed version to data structures. Your result should be a tail-form, first-order program, like the ones in the lecture notes and in section 9.1.

2. Convert your answer to the previous problem to imperative form. Your answer should be an imperative-form program, like the ones in the lecture notes and in section 10.1.

3. Convert your answer to question 2 to C, along the lines of the program presented in class, and run it on some sample data. If you are not familiar with C, then convert to Pascal instead.