Problem Set 9: More Lists and Streams

Out: Tuesday, 17 November 2015
Due: Tuesday, 24 November 2015

Reading: Section 3.5 of SICP.

Turn in a hardcopy at the start of class on the due date and submit your answers electronically using the command

```
submit holly 301-ps9 <yourfile>
```

**Problem 1:** Exercise 3.16 on p. 259.

**Problem 2:** Exercise 3.17 on p. 259.

**Problem 3:** Use stream-map (p. 320 of textbook) to define a procedure called convert-temps that takes a stream of temperatures in Fahrenheit and returns a stream of converted temperatures in Celsius. Recall that to convert Fahrenheit to Celsius, the equation is $C = \frac{5}{9} \times (F-32)$.

**Problem 4:** Exercise 3.51 on p. 325.

**Problem 5:** Exercise 3.52 on p. 325-326.

**Problem 6:** Exercise 3.53 on p. 330.