

Problem Set 1

September 10, 2010

1 Problem 1

1. Write a function in R that given a vector of temperature for the entire growing season calculates the frost free period and also reports the day in the spring after the last frost and the first day in the fall before the first fall frost.
2. Modify the previous function to consider temperatures other than 0° . For example, -2° .
3. Test your function with the data set “cmi2005.txt”.

2 Problem 2

1. Write an R function that can compute the mean of meteorological variables by day of the year
2. Adapt the previous function to return the sum instead of the mean
3. Test your function with the data set “cmi2005.txt”

Do not use built-in functions for this, but rather use explicit loops.

3 Problem 3

1. Write your own version of a function which does cumulative sums.

4 Comments

As I mentioned before this will be graded based on participation alone. Try to solve the problems on your own first. After you give this problems some thought feel free to discuss approaches with classmates. We will discuss the answers in class. This assignment is due 9-17-2010.