NextClass-2: Functional Abstraction

CS173: Intermediate Computer Science   Spring 2014
Instructor: Thomas Bressoud   Due 2013-01-24

Give *complete* pre- and post-conditions for each of the following functions

1. `min(L)`: A function to compute the smallest number in the list `L`

   pre:

   post:

2. `mean(L)`: A function to compute the average (mean) of numbers in the list `L`

   pre:

   post:

3. `find(L, x)`: A function to find the index of the first occurrence of `x` in the list `L`.

   pre:

   post:

4. `grade(N)`: A function to convert a numeric grade `N` to a letter grade (i.e., 90-100 is an A, 80-89 is a B, 70-79 is a C, 60-69 is a D, and 59 or below is an F)

   pre:

   post:

5. `centeredAverage(L)`: A function to compute the average of a list of numbers after the smallest and largest numbers have been taken out.

   pre:

   post:

6. `winner(s1, s2)`: A function that takes the scores of two players as parameters and prints out if Player 1 or Player 2 has the higher score.

   pre:

   post:

7. `removeN(L, n)`: A function that returns the list `L` with the `nth` element removed.

   pre:

   post:

8. `replace(s, old, new)`: A function that returns the string `s` with all occurrences of the string `old` replaced with the string `new`.

   pre:

   post: