Workshop 2 - Exercises

Problem 1: Removing all occurrences of characters

Write a function **`CensorString`** that takes two strings as input and returns the first string with all of the characters that are present in the second removed.

"University of Texas" with *"int"* removed becomes *"Uversy of Texas"*

"Llamas like to laugh" with *"la"* removed becomes "Lms ike to ugh" and so on . . .

Note that the function is case sensitive. This function could be written two ways. One way is to return a completely new string, and the other is to modify the original string. For practice write both of these functions. First write a function that returns a completely new string with the following prototype:

```
string CensorString1(string text, string remove);
```

and then write a function that modifies the original string with the following prototype:

```
void CensorString2(string & text, string remove);
```

Problem 2: Class Statistics

Write a function that takes a ***filename***, reads student grades from it (one per line where 0 <= score <= 100), and returns the class average. For efficiency's sake, your function should make only a single pass over the file. How would you change your code to return multiple statistics (min, max, std dev, etc.)