

CIS 1.5 Fall 2009 Lab IV.4

1. Write a program called **s5.cpp** that does the following inside the `main()`:

- Declare a string variable called `name`
- Ask the user to enter her first and last name
- Read in the names using `getline()` and store their input in your `name` variable
- Now use the member function `find` to count the number of times the letter `a` appears in the name.

Compile and run your code to make sure it works.

Test your program with some different names, at least with a name with no `a`s, with one `a` and with more than one `a`.

2. Create a new program called **s6.cpp** and do the following:

- Declare a string variable called `birthday`
- Declare an `int` variable called `date`
- Ask the user to enter her birthday, either in the format
The 4th of November
or
November 4th
- Using the functions `isdigit` and `atoi`, extract the numerical part of the date (the 4 in the above example) and store it in the variable `date`.
- Print this value out.
- Try to get your program to work with both single digit and double digit dates.

3. Now write a program called **s7.cpp** which is like **s5.cpp**, but instead of counting the number of times the letter `a` appears, counts the number of vowels, that is the number of times the letters `a`, `e`, `i`, `o` and `u` appear in the name.

HINT: you might want to write a function `isVowel` that takes a character as an argument and returns true if the character is a vowel.