

Lab 2.1

email Address Part 2

Objective:

To manipulate `strings` using the operations of reading, size checking, and searching with a text file.

Assignment:

Using your Lab 1 program as a starting point you will now be able to determine any country code by reading through a text file list. Copy the “Countries.txt” file into your project directory and use it to determine the country of the users email address.

An Internet address (e.g., `bob@lan.lhs.edu`) is made up of several parts. In general, the part before the `@` is the name or ID of a particular user, and the part after the `@` specifies the site at which the user is located. For most sites, the last three letters describe the site’s type:

<code>edu</code>	Educational institutions
<code>org</code>	Not-for-profit organizations
<code>gov</code>	Government entities
<code>mil</code>	Military installations
<code>net</code>	Network service providers
<code>com</code>	Commercial ventures

Some Internet addresses end in a two-letter code specifying the country (e.g., `fr` for France). Write a separate function to find these domain codes by locating the last dot in the string. For example, the domain name in the address, `harris@sch.ci.lexington.ma.us`, is `us`.

Write a program, containing 3 functions that will ask the user for his or her email address and print out the following:

- The user's name or ID
- The user's character site type. Display the specific name for all 3-character site types.