

ECE3411 – Fall 2015

Lab 1b.

Introduction to C-Programming

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Prerequisites

- Eclipse development environment (with C Development Tools) installed
- Basic understanding of C Programming

Task 1: Analyzing the Email Address

We want to determine if the email address entered by a user is of a valid format or not.

- Write a C program that takes an email address as input (character by character) and verifies that:
 1. It contains one and only one “at” sign ‘@’
 2. It contains at least one period ‘.’ which succeeds the ‘@’ sign
- For example
 - alice@gmail.com is considered valid.
 - alice@mydomain.co.uk is considered valid
 - alice@gmail@.com is considered invalid
 - alice@gmailcom is considered invalid

Task 2: Analyzing the Email Address

We want to determine if the email address entered by a user is of a valid format or not.

- Write a C program that takes an email address as input (character by character) and verifies that it is of the form -----@-----uconn.-----
 - I.e. It contains one and only one at sign '@'
 - It contains ".uconn." character sequence which succeeds the '@' sign
 - The special characters '@' and '.' cannot be consecutive, i.e. '@.', '@@', '..', and '.@' are invalid
- For example
 - alice@engr.uconn.edu is considered valid.
 - alice@mydomain.uconn.co.uk is also considered valid
 - alice@engr..uconn.edu is considered invalid
 - alice@engruconnedu is considered invalid