Programming Project #2

CpSc 8270: Language Translation

Computer Science Division, Clemson University

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Brian Malloy, PhD August 31, 2016

Due Date:

In order to receive credit for this assignment, your solution must meet the requirements specified in this

document and be submitted, using the handin web page, by 8 AM, Thursday, September 15th, 2016. The

handin close date is set at three days after the due date. If you submit after the due date but before the handin

close date there will be a ten point deduction. No submissions will be accepted after the handin close date

and no submissions will be accepted by email.

Project Overview:

1337 is an alternative vocabulary and alphabet that is used primarily on the Internet as a specialized

form of symbolic writing. 1337 was originally used by computer hackers but it has evolved as a tool for encryption or obfuscation, which some Internet users feel is necessary in help combat the proliferation of

hackers attempting to steal passwords and other information. Some of you may already be using 1337; for

example, some DPA passwords are encoded in 1337.

Project Specification:

Your assignment is to use the GNU tool, flex, to build a translator from English to 1337, and from 1337 to

English. The purpose of this project is to provide an opportunity for you to learn to use the tool flex, and to gain some experience with 1337 translation. To test your 1337 translator we will use your etol tool to encode

a message from english to 1337, then we will use your ltoe tool to decode the message.

If your 1337 translator translates "ordinary" 1337 you will receive 90% as your grade. If you can build

a 1337 translator with more obfuscation, or other enhancement or pizzazz, you will receive 100% as your

grade.

There are many dialects, or accepted versions of 1337, ranging from basic 1337 to advanced, or pro

1337. One possible enhancement is to translate digits into the corresponding word, so that the digit 1 would

translate to one, 2 would translate to two, etc.

You must submit your assignment using the web handin command, which can be found at:

https://handin.cs.clemson.edu

1

There is a lot of information on the Internet about 1337, and there are translators:

http://en.wikipedia.org/wiki/Leet

http://simple.wikipedia.org/wiki/Leet#Wrong_grammar

http://1337.me/

http://www.robertecker.com/hp/research/leet-converter.php?lang=en