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| LEARNING PROFILE FOR LengthConverter | | | | | |
| *Name* | *:* | *Tyler Lucas* | *Due Date* | *:* | *N/A* |
| *Student ID* | *:* | *3305203* | *Submission Date* | *:* | *N/A* |

# Problem Statement

Textbook example program.

# Description of the Code

This program will convert measurements expressed in inches, feet, yards, or miles into each of the possible units of measure. The measurement is input by the user, followed by the unit of measure. The measurement is input by the user, followed by the unit of measure. For example: "17 feet", "1 inch", or "2.73 mi". Abbreviations "in", "ft", "yd", and "mi" are accepted. The program will continue to read and convert measurements until the user enters an input of 0.

# Errors and Warnings

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| **#** | **Errors / Warnings** | **Details** | **How I solved them** |
| 1 | Output formatting error, not a compiler error. | My attempt to insert line breaks into the sequence output string just before it reached 80 characters was failing every other line (not in a line number pattern, though) because the math in the logical check was bad. | I changed the logical check. (See Discussion:.) |
|  |  |  |  |

# Sample Input and Output

[Version 1.0]

Please type in a line of text.

The red fox jumped over the brown fence.

Your input contains the following letters:

B C D E F H J M N O P R T U V W X

There were 17 different letters.

[Version 1.1]

Please type in a line of text.

The brown fence was jumped over by the red fox.

Your input contains the following letters:

A B C D E F H J M N O P R S T U V W X Y

There were 20 different letters.

# Discussion

I tried the author’s suggested improvement, using the String.indexOf() method instead of the nested for loop, in version 1.1, and it worked well. There are quite a few methods available in the String class – I’ll have to look at them more closely, perhaps even make a cheat sheet.