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# Assignment 0

## PART 1: Introduce Yourself

I am from Colombia, but I live in Chicago North Suburbs. I decided to pursue a degree in Computer Science since I have a BS degree in Electronics engineering that I have never used and now I feel it's to come back to science. The reason why I never used it was because I was simultaneously doing a BA in linguistics and my own destiny brought me through the linguistic path instead.

I came to this country 7 years ago after I was awarded a scholarship to study English and to be a Language advisor for the University of Wisconsin. Then, I met my wife and decided to stay in the U.S and do a M.A in Hispanic linguistics and literature (also at the University of Wisconsin). After that, I got accepted to a Ph.D. program in Hispanic linguistics at the University of Illinois. So now I would like to see if I could put together all what I have learned and focus on Computational Linguistics or something similar (if it is possible and I don't change my mind ;-)).

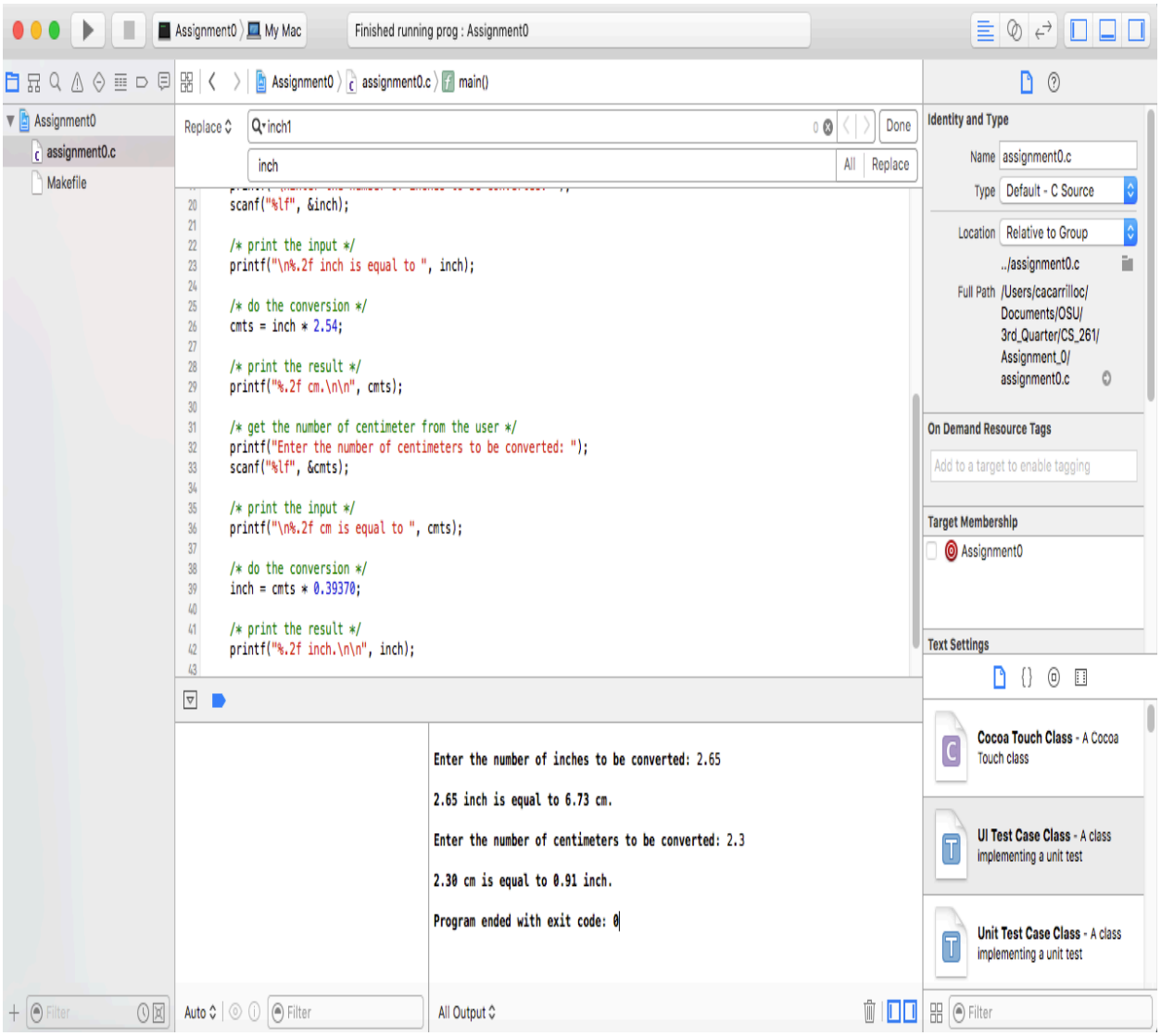
Currently. I am an Associate Editor/Translator at Pearson Education at the Math department. We create Math textbooks for kids from Grade K-6 in both English and Spanish. I love to watch documentaries, ride my bike, play my electric guitar, and snuggle my wife and my two Chihuahuas.

## Programming Experience

Before beginning this program, I had almost no programming experience (just a little bit of Assembly Language for Intel micro-processors). My experience programing really boils down to the C++ I've learned in CS_161 and CS_162. For C++, I initially worked in VIM for about a week but then started using Xcode and haven't looked back. I wrote pretty much all my programs in Xcode and then would test them on FLIP.

**PART 2: Environment Setup**

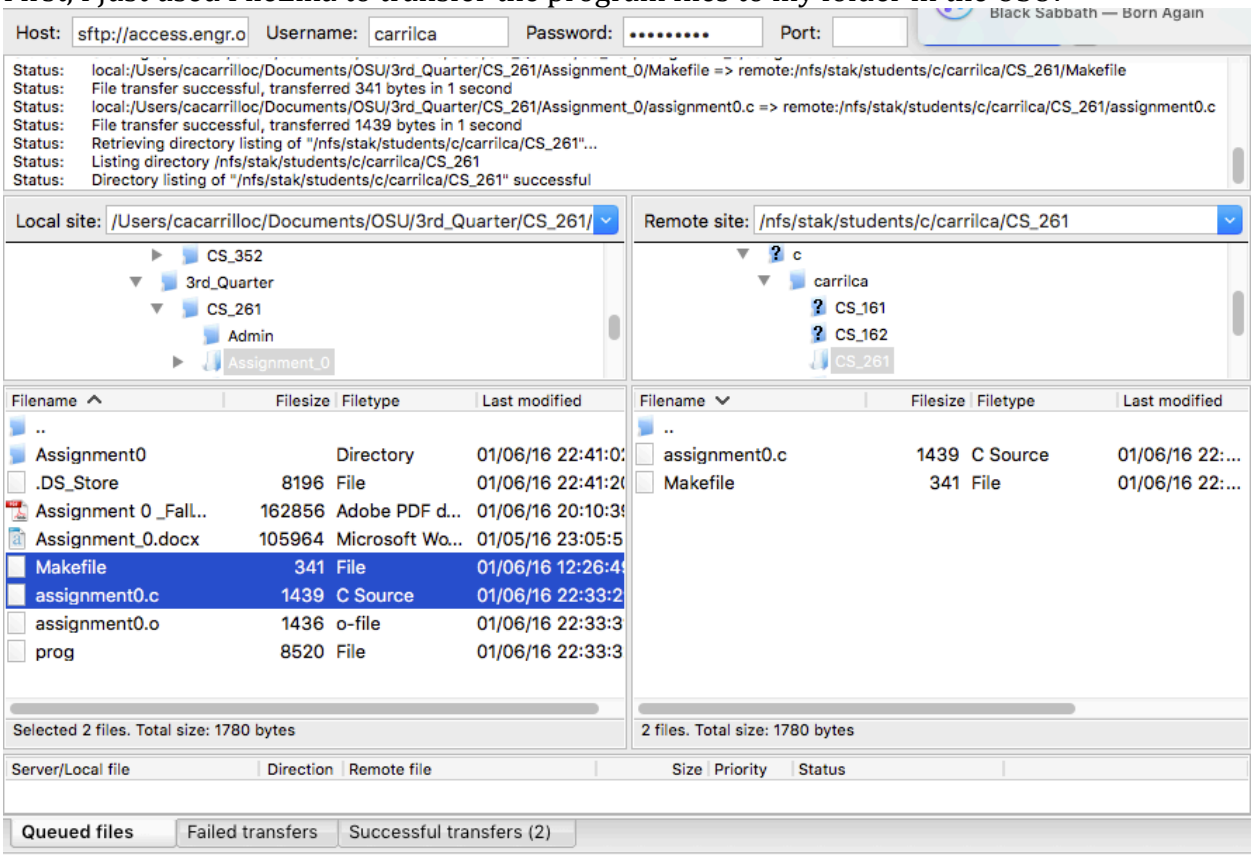
I chose Xcode as my suitable programming environment with a debugger. Fortunately, it works very smoothly for me. These are the screenshots to show my work:



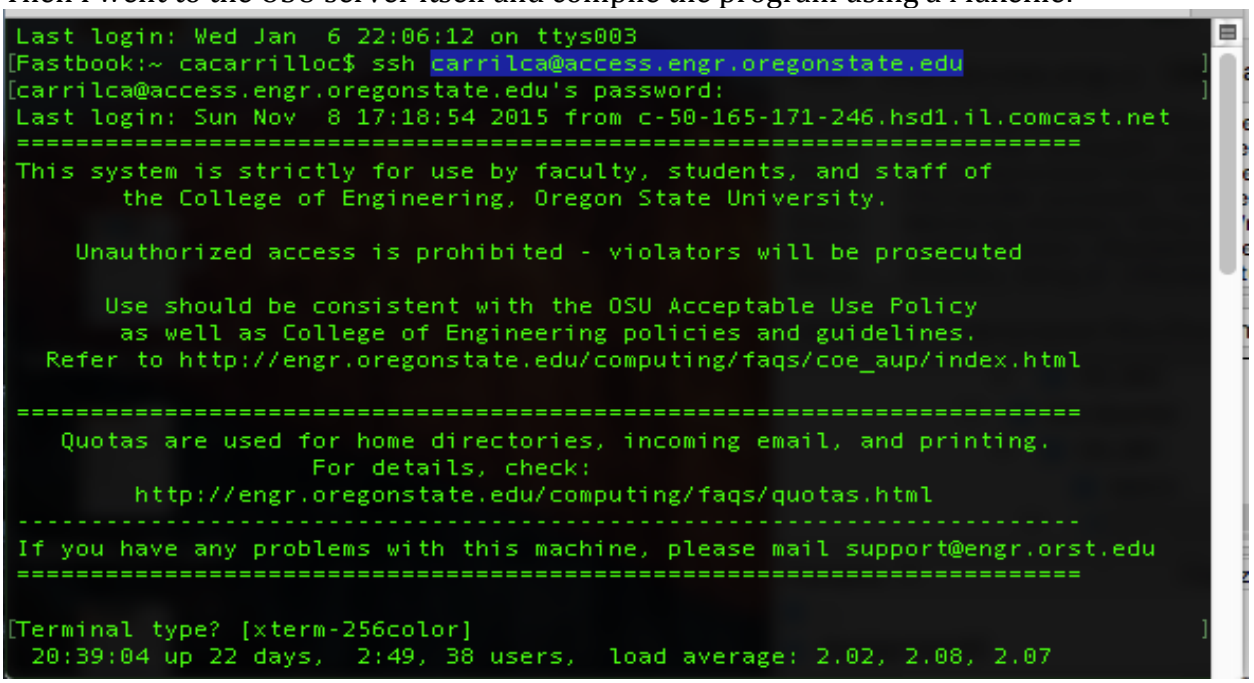

```
Enter the number of inches to be converted: 2.36

2.36 inch is equal to 5.99 cm.

Enter the number of centimeters to be converted: 1.5

1.50 cm is equal to 0.59 inch.

Program ended with exit code: 0
```

**Compiling/executing on flip.engr.orst.edu:**

First, I just used FileZilla to transfer the program files to my folder in the OSU:




Then I went to the OSU server itself and compile the program using a Makefile:



```
eldebrim pts/38   173.245.67.219   19:36    1:51   0.11s  0.03s vim assin1.cpp
moorear  pts/39   10-248-89-109.wi 18:32    1:46m  0.07s  0.07s -tcsh
sladcikc pts/40   c-73-240-96-198. 19:39   47:37   0.13s  0.05s vim struct.cpp
meermeic pts/41   c-76-115-23-173. 12:19    5:41m  0.08s  0.08s -tcsh
mam      pts/42   c-24-21-143-39.h 18:40    1:09m  0.61s  0.59s ssh -X mam@jsba
oppenhed pts/43   10-248-224-91.wi 19:42   32:35   0.07s  0.07s -tcsh
carrawat pts/44   cpe-174-109-29-1 19:59   38:03   0.07s  0.07s -tcsh
yaffee   pts/54   cpe-65-28-91-240 14:36   59:38   0.12s  0.04s vim all.cpp
[flip1 ~ 6% ls
CS_161  CS_162  mail  public_html  Windows.Documents
[flip1 ~ 7% ls
CS_161  CS_162  CS_261  mail  public_html  Windows.Documents
[flip1 ~ 8% cd CS_261
[flip1 ~/CS_261 9% ls
assignment0.c  Makefile
[flip1 ~/CS_261 10% make
gcc -Wall -std=c99 -c assignment0.c
gcc -Wall -std=c99 -o prog assignment0.o
```

```
[flip1 ~/CS_261 39% cd
[flip1 ~ 40% ls
CS_161  CS_162  CS_261  mail  public_html  Windows.Documents
[flip1 ~ 41% cd CS_261
[flip1 ~/CS_261 42% ls
assignment0.c  assignment0.o  Makefile  prog
[flip1 ~/CS_261 43% make clean
rm assignment0.o
[flip1 ~/CS_261 44% make
gcc -Wall -std=c99 -c assignment0.c
gcc -Wall -std=c99 -o prog assignment0.o
[flip1 ~/CS_261 45% ./prog

[Enter the number of inches to be converted: 6

6 inches are equal to 15.24 cm.

[Enter the number of centimeters to be converted: 8

8 centimeters are equal to 3.15 inch.
```

**My first C program for this course:**

```c
/*****************************************************************
 ** Author: Carlos Carrillo                                      *
 ** Date:   01/06/2016                                           *
 ** Description: This program converts a value from inches       *
 *  to centimeters and vice versa.                                *
 ** Input: A float and String of characters variables            *
 ** Output: The input values converted into the target unit.*
 *****************************************************************/

#include <stdio.h>
#include <stdlib.h>

int main()
{
    double cmts;    //input variable
    double inch;    //input variable

    /* get the number of centimeter from the user */
    printf("\nEnter the number of inches to be converted: ");
    scanf("%lf", &inch);

    /* print the input */
    printf("\n%.2f inch is equal to ", inch);

    /* do the conversion */
    cmts = inch * 2.54;

    /* print the result */
    printf("%.2f cm.\n\n", cmts);

    /* get the number of centimeter from the user */
    printf("Enter the number of centimeters to be converted: ");
    scanf("%lf", &cmts);

    /* print the input */
    printf("\n%.2f cm is equal to ", cmts);

    /* do the conversion */
    inch = cmts * 0.39370;

    /* print the result */
    printf("%.2f inch.\n\n", inch);

    return(0);
}
```