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Professor Jarc

CMSC 430 7380

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CMSC 430 Project 2 Documentation

**Approach:**

I approached this project by first downloading and reading all the required files. The document describing the recommended approach to this project was immensely helpful and I thank you so much for it, professor. I followed that guide and did what it said. I encountered a few struggles with it, and ultimately sent you an email and with the guidance you gave me I was able to fix a lot of them.

**Test Cases:**

For the test cases I used the eight provided .txt files. These are available in the zip file. Note that for some reason the error messages tools that should print out at the bottom are not printing out. I tried to fix this for the test cases, but given the fact that it works on your machine, professor, I didn’t deem it necessary at this time to spend any more time trying to make it show up for me.

Test Case One:

A screenshot of a computer

Description automatically generated

Test Case Two:

A computer screen shot of a program

Description automatically generated

Test Case Three:

A screenshot of a computer program

Description automatically generated

Test Case Four:

A computer screen shot of a program code

Description automatically generated

Test Case Five:

A screenshot of a computer program

Description automatically generated

Test Case Six:

A computer screen shot of a program code

Description automatically generated

Test Case Seven:

A computer screen shot of a program

Description automatically generated

Test Case Eight:

A computer screen shot of a program code

Description automatically generated

Test Case Nine:

A screen shot of a computer

Description automatically generated

Test Case 10:

A computer screen shot of a program

Description automatically generated

Test Case 11:

A computer screen shot of a program

Description automatically generated

Test Case 12:

A computer screen shot of a program code

Description automatically generated

Test Case 13:

A screenshot of a computer program

Description automatically generated

Test Case 14:

A screenshot of a computer program

Description automatically generated

Test Case 15:

A computer screen shot of a program

Description automatically generated

Test Case 16:

A computer screen shot of a program

Description automatically generated

As you can see, this test fails.

Test Case 17:

A screenshot of a computer program

Description automatically generated

Test Case 18:

A computer screen shot of a program code

Description automatically generated

Test Case 19:

A screenshot of a computer program

Description automatically generated

As you can see, this test fails epically.

Lessons Learned:

I learned a lot from this assignment. I didn’t struggle with much of it at all until the error checking part at which point, I reached out to you for guidance, professor. Your help was incredibly useful, and I thank you so much for it. For the future I will try my hardest to ask questions earlier instead of the day the assignment is due.  
As potential improvements, there are still some bugs and missing features. Here they are listed below:

1. For some reason it doesn't like the optional variables that should come after the function header but before the body of the function. I'm not sure what the problem is exactly, but I think it has to do with the optional parameters production that lies in the function header.
2. For this one it is a similar error as the previous one wherein it doesn't like the optional variables being there, so I think fixing that previous issue should resolve this one, but there is also another issue with this one.
3. It is not printing the error about "Syntax Error, Unexpected MULOP" for line 4, but I think that resolving the aforementioned issue could perhaps fix this.
4. Line 8 should also generate another error of "Syntax Error, Unexpected MULOP," but it is not generating it here either.
5. Line 11 should generate "Syntax Error, Unexpected ARROW, expecting INT\_LITERAL" because there is no int literal next to the when, but it is not generating this one and I'm not sure why.
6. The last issue I have with this one is on line 13 it should generate "Syntax Error, Unexpected ENDCASE, expecting WHEN or OTHERS," but I think that if I were to fix the issue with line 11 this one might sort itself out.

I would like to get these issues fixed even though I won’t receive any credit for doing so just because I would like to get it working and feel satisfied with this project, also in case it is needed for the week 3 project.