

CS530Assignment

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The program runs with the following command:

```
./dissem sample-obj.txt sample.sym.txt
```

Will output:

```
list.txt
```

The attached Zip file contains our Disassembler code.

The purpose of these are to read in Object codes and Symbol files while an Assembly listing file is the output.

The program uses input.cpp to read in the Object codes and Symbols files.

Using these the Disassembler class is created to decode these into an Assembly file.

When testing within our main file we would call upon the input.cpp and Disassembler.cpp to produce our output,

The Disassembler calls upon header_record.cpp, mod_record.cpp, and end_record.cpp to read the inputted files and

generate the output from them.

First Diagram

Setting up a plan for our assignment

We also split up the work by input, header record, text record, end record and output. We ended up changing some variable types and method names.

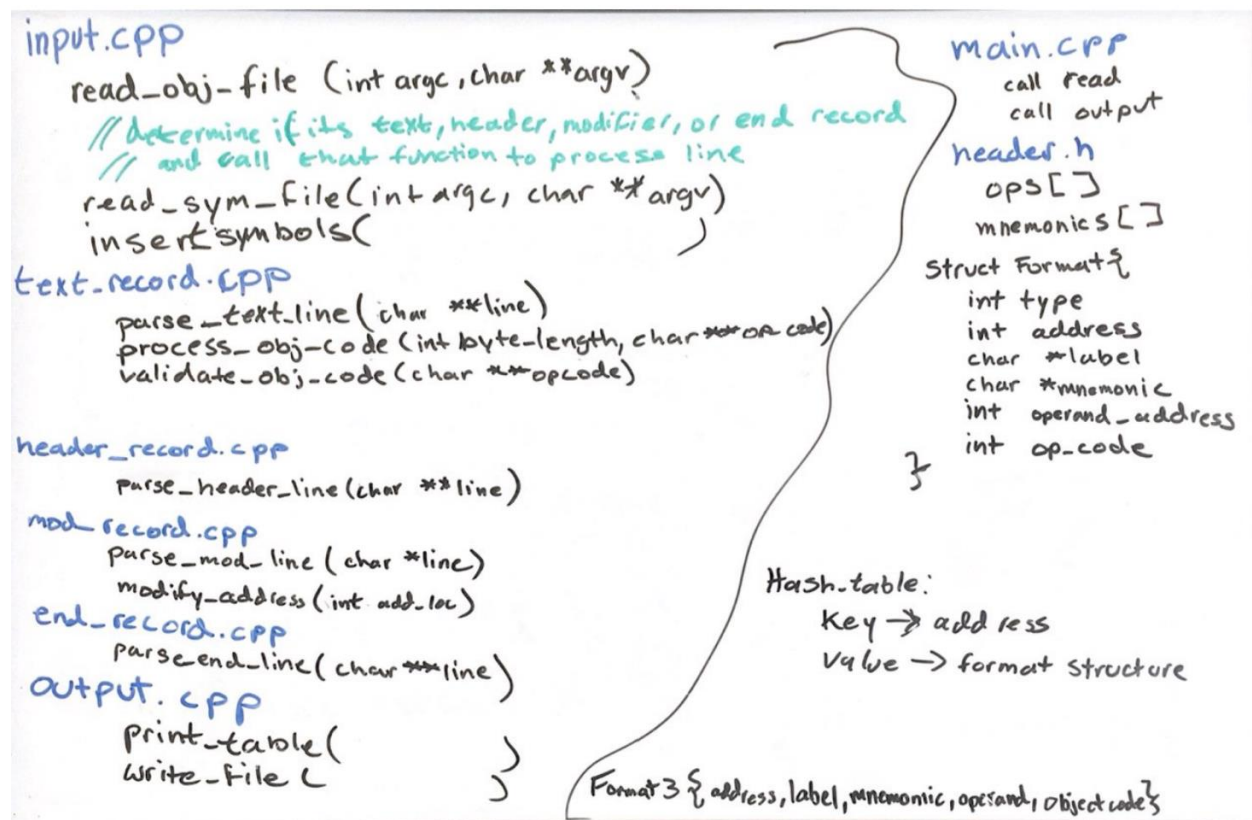


Diagram 2

Setup a structure for the assembly line code that way the output method can just iterate assembly code lines and print it or write it.

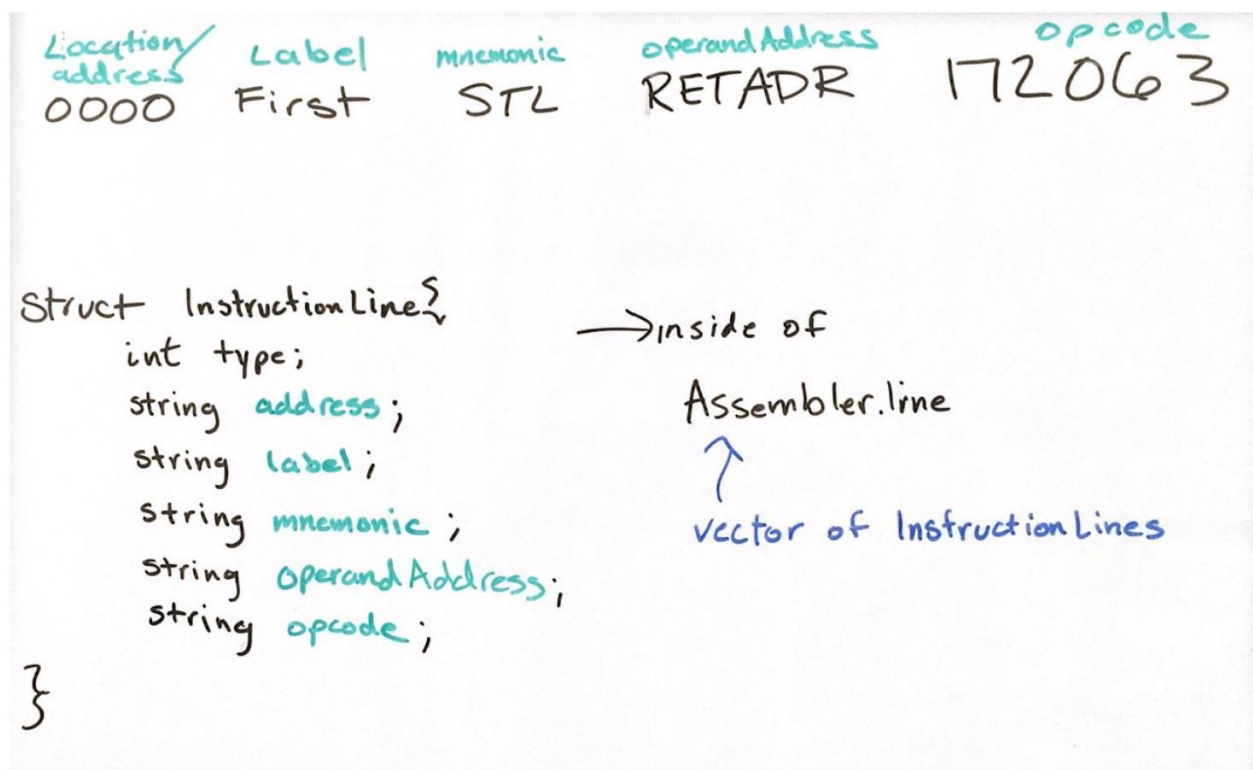


Diagram 3

Put all parts together to have a running program

```
main (argc, argv)
    Disassembler disassembler = inputMethod(argc, argv)
    outputMethod(disassembler);

inputMethod (argc, argv)
    line = readLine ( )
    Disassembler disassembler = headerMethod (line, &disassembler);
    // loop all text lines
        line = readLine ( );
        processTextLine (line, &disassembler);
    // loop all modifier lines
        line = readLine ( );
        modifyMethod (line, &disassembler);

    line = readLine ( )
    endMethod (line, &disassembler);
    return disassembler;
```