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3/17/2018

Assembler Report

Group Members: Tyler Manifold, Trinity, and Isaac Murillo

Programing Language: C++

Project Design: The project revolves around using a tokenizer function and hash table. The hash table will be reused, and so was made into a class for we could use inheritance for deriving and creating a symtab class. Our hope of building our programming this way through inheritance is that it will make our work easier. As each of the classes that our project will need will be split between our group members. Debugging and testing has been done through making each class and function work independently doing their basic function they are required to do (i.e. making them have a main function to do test runs on the file). Much effort is made into making the program as simple as possible to make logic errors and other miscellaneous errors quickly to find. Once bugs and errors have been removed and we believe the file to be functional we split the file up into respective header and cpp files and upload them to bitbucket.

Work Division: We have been using bitbucket as form to work on the project and track our progress in the project. Tyler Manifold has been assigning the group with the tasks (through bitbucket and in person) that need to be completed, with Tyler working on the tokenizer, Isaac working on the Hash Table, and Trinity working on the optab. Were the beginning task assigned to each group member, and with many of these tasks completed or close to completion. We are planning on what to do next once spring break is over as we were planning that we would have our respective task completed.

Note: Bitbucket has allowed us to work on the project separately with ease as we can work on the project at separate times but keep track of what we are all doing as bitbucket keeps record of commits done. With the management of tasks handled by project leader (Tyler) we have been able to work on the project with out having to do routinely meets ups. We discuss any questions, inquiries, and updates after class as well to make sure everything is fine on everybody’s end of the project.

Status: As the project stands of now the tokenizer and hash table are completed, and along with any bugs and syntax errors removed (logical errors may appear once we merge the files together, but we are expecting that). With progress on the ptab under way as we plan to use inheritance on the optab, and the reason for the delay on the optab as the hash table needed to be completed first.

Milestones: We plan on finishing the project as quickly as possible, as we formed our group early we thought it would be best to keep that head start. We have not made many milestones on our project, because of the way we want to go about it. Like I said we want use inheritance and make the code as simple as possible. Making sure we have classes that meet those requirements first is important to us. As having those features will benefit us as the project progresses.

Tokenizer – Completed

Hash Map – Completed

OPTAB – InProgress

SYMTAB – Not started yet as we have had to wait on the completion of the Hash map to begin