

Team SyntaxError  
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## 2022 Compilers Coursework

Week 1 (Feb 28th to Mar 6th)				
Task / Milestone	Time Planned/hrs	Time Spent/hrs	Contributor	Completion Status
Implement the plan for the first week	1	1	Xuan	Complete
Write the lexical analyser (Flex & Bison) to tokenise input data	5	7	Luca / Xuan	Complete
Research the purposes of the MIPS registers	1	1	Luca / Xuan	Complete
Research how to implement a symbol table	3	4	Luca	Complete
Week 2 (Mar 7th to Mar 13th)				
Implement the plan for the second week	1	1	Luca	Complete
Test and update the lexer	2	2	Luca / Xuan	Complete
Design the operator class	3	3	Luca / Xuan	Complete
Write and test the basic Symbol Table	3	4	Luca / Xuan	Complete
Week 3 (Mar 14th to Mar 20th)				
Implement the plan for the third week	1	1	Xuan	Complete
Create and complete basic AST files	4	6	Luca / Xuan	Complete
Implement basic statements	4	5	Luca / Xuan	Complete
Create a basic parser	3	4	Xuan	Complete
Fix problems in parser	2	3	Luca	Complete
Implement Canonical Print	3	3	Luca / Xuan	Complete
Merge Flex and Bison Files	2	2	Luca / Xuan	Complete
Week 4 (Mar 21st to Mar 27th)				
Implement the plan for the fourth week	1	1	Luca	Complete
Write the CPP to MIPS translator function	1	2	Luca / Xuan	Complete
Add MIPS code generation to ASTs	5	8	Luca	Complete
Add framework for cases	3	3	Xuan	Complete
Update the symbol table class	5	5	Luca	Complete
Implement pointers for the symbol table	3	3	Xuan	Complete
Implement registers for the operator class	2	2	Xuan	Complete
Implement different declaration types	1	2	Luca	Complete
Implement enumeration	2	2	Luca / Xuan	Partially Complete
Fix MIPS instruction errors	1	1	Xuan	Complete
Week 5 (Mar 28th to Mar 29th)				
Design the test script	1	1	Luca / Xuan	Complete
Implement the plan for the fifth week	1	1	Luca	Complete
Implement array for primitives	3	3	Xuan	Complete
Implement sizeof	2	4	Luca	Partially Complete
Implement scope in symbol table	3	3	Xuan	Complete
Change variable names to be more suitable	1	1	Luca / Xuan	Complete
Split up ASTs to be more presentable and easier to debug	2	2	Luca / Xuan	Complete
Increase the size of arguments from 4	1	3	Luca	Complete
Implement floating arithmetic	1	2	Luca / Xuan	Incomplete
Implement Pointer arithmetic	2	2	Luca / Xuan	Incomplete
Fix errors and faults	4	8	Luca / Xuan	Partially Complete
Tidy up repository deliverable	1	1	Luca / Xuan	Complete