

CPSC-402 Report

Compiler Construction

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Abstract

Short summary of purpose and content.

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1 Introduction

Section 1 Come back to this

1.1 General Remarks

Definition 1.1. This is a definition.

Example 1.2. This is an example.

Proposition 1.3. *This is a proposition.*

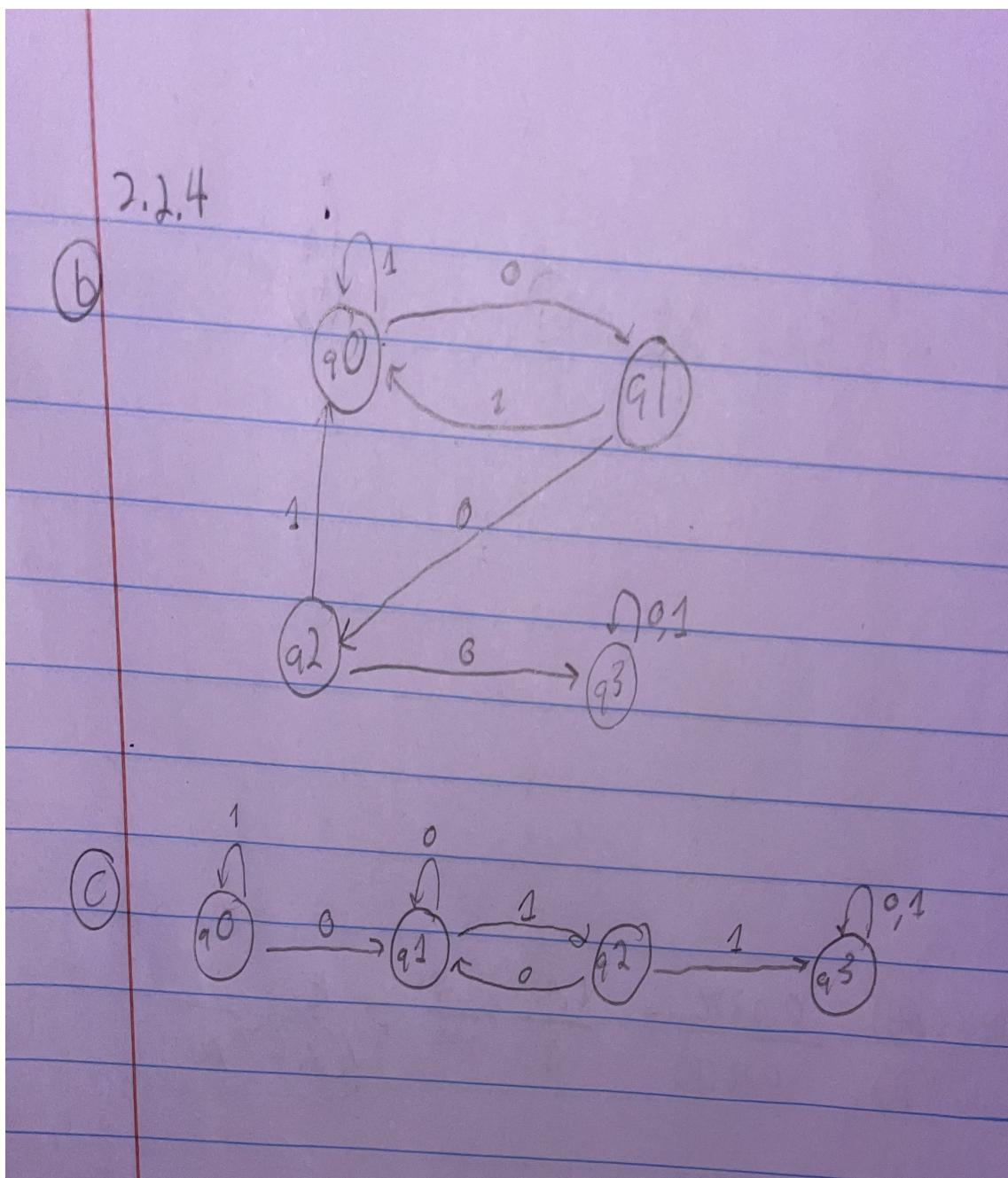
Theorem 1.4. *This is a theorem.*

You can also create your own environment, eg if you want to have Question, Notation, Conjecture, etc.

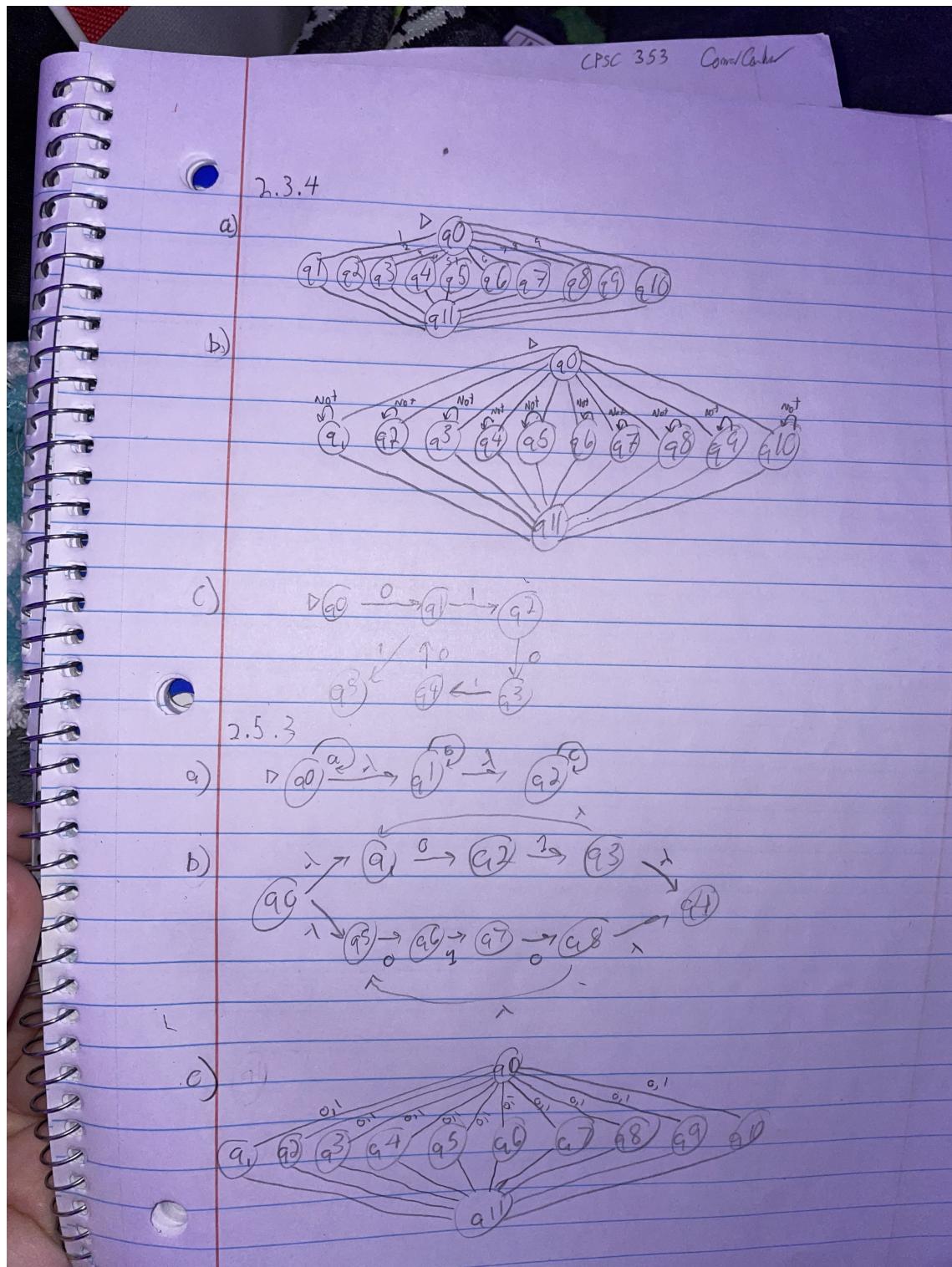
2 Homework

This section contains my solutions to the homework.

2.1 Week 1

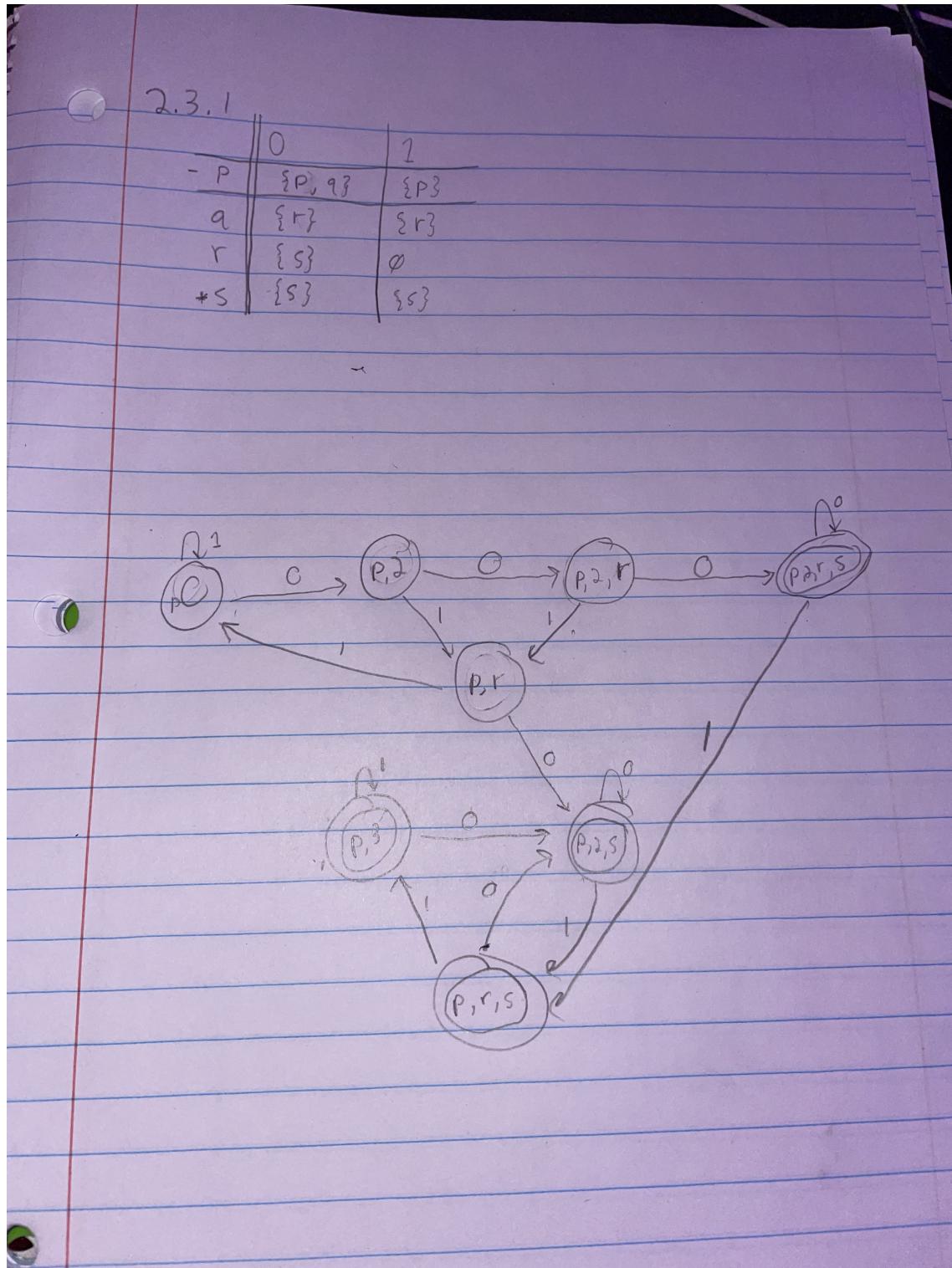


2.2 Week 2

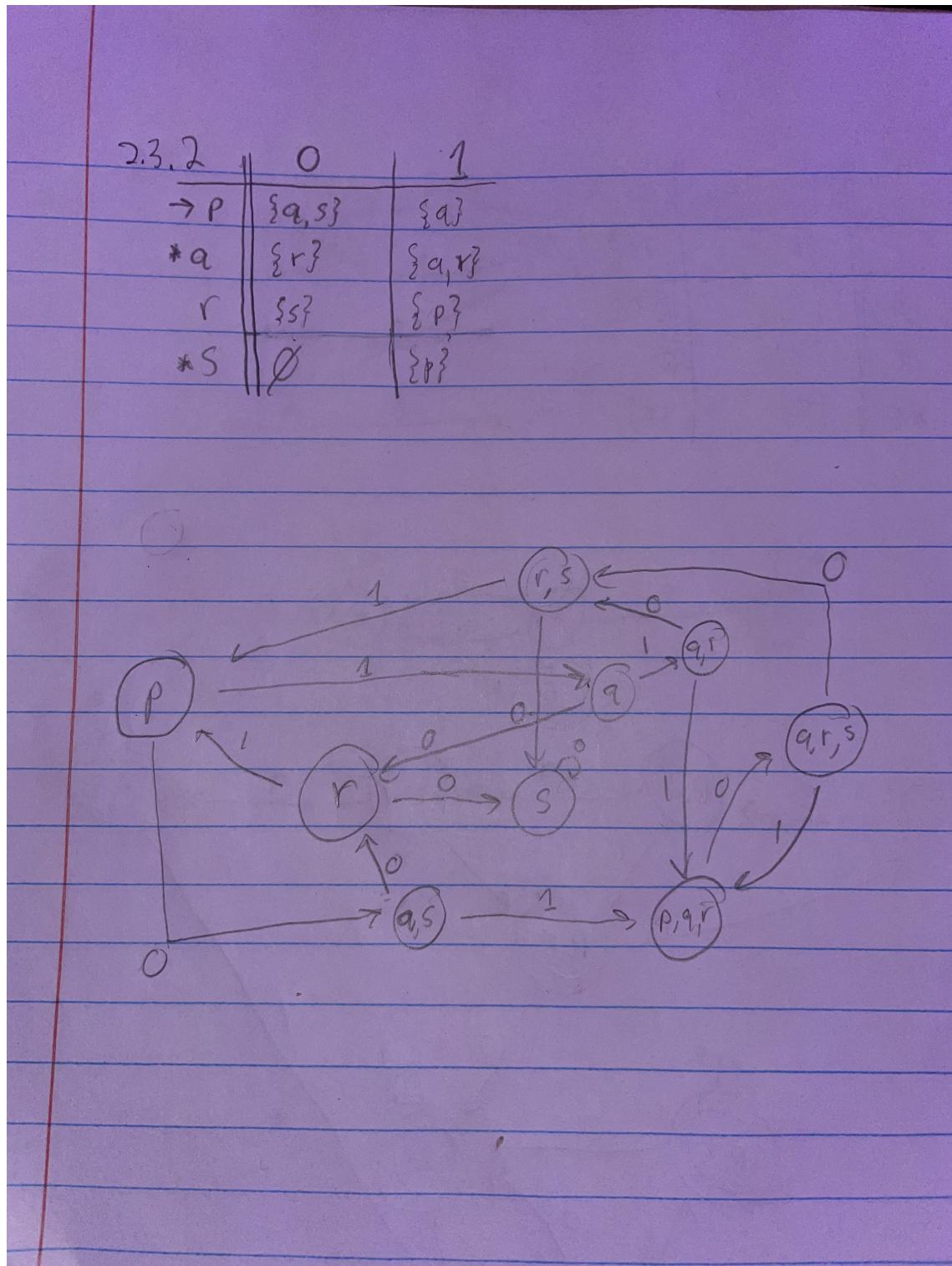


2.3 Week 3

Converting NFAs to DFAs by Hand

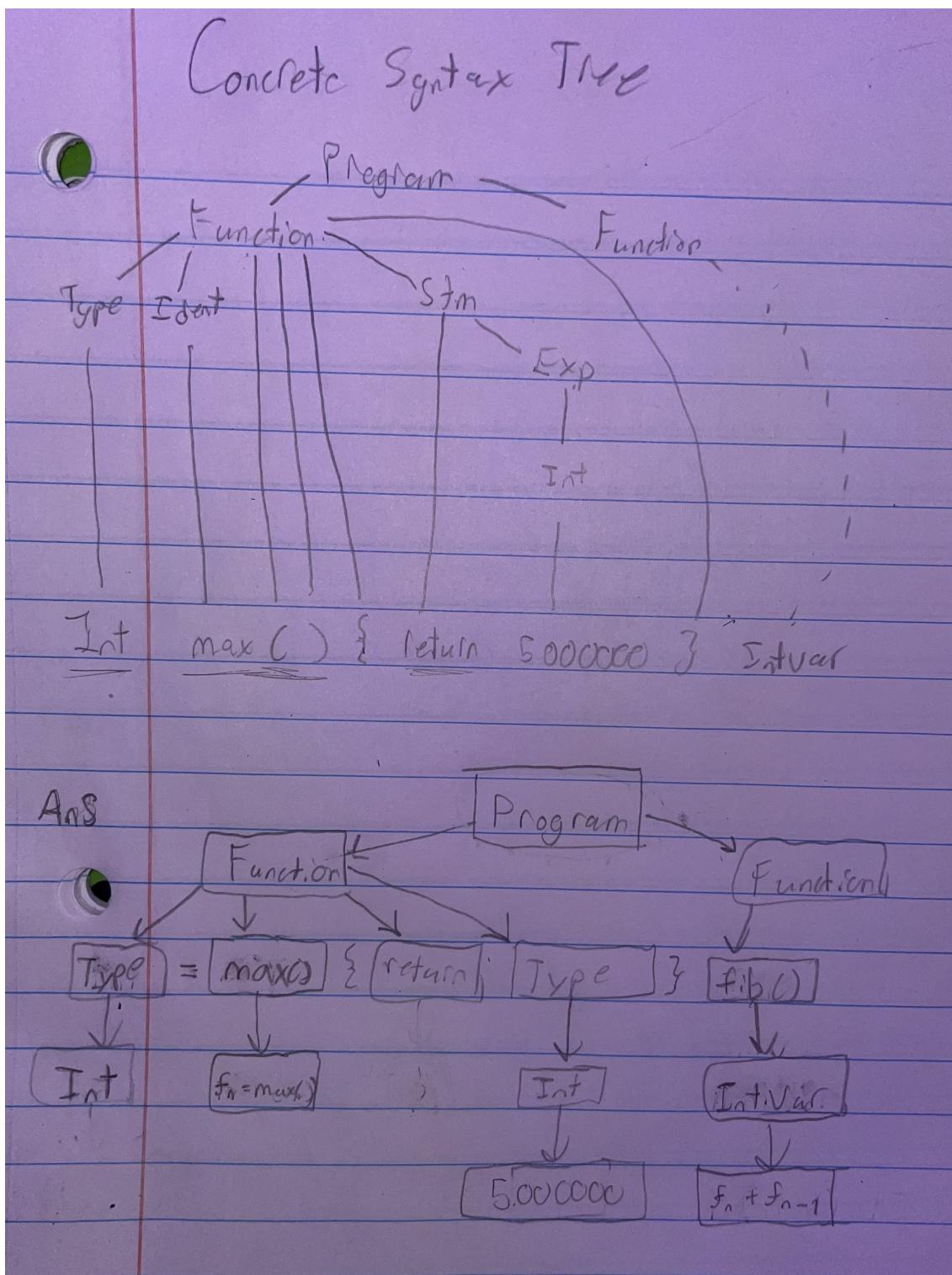


Converting NFAs to DFAs In Haskell Using the List Monad

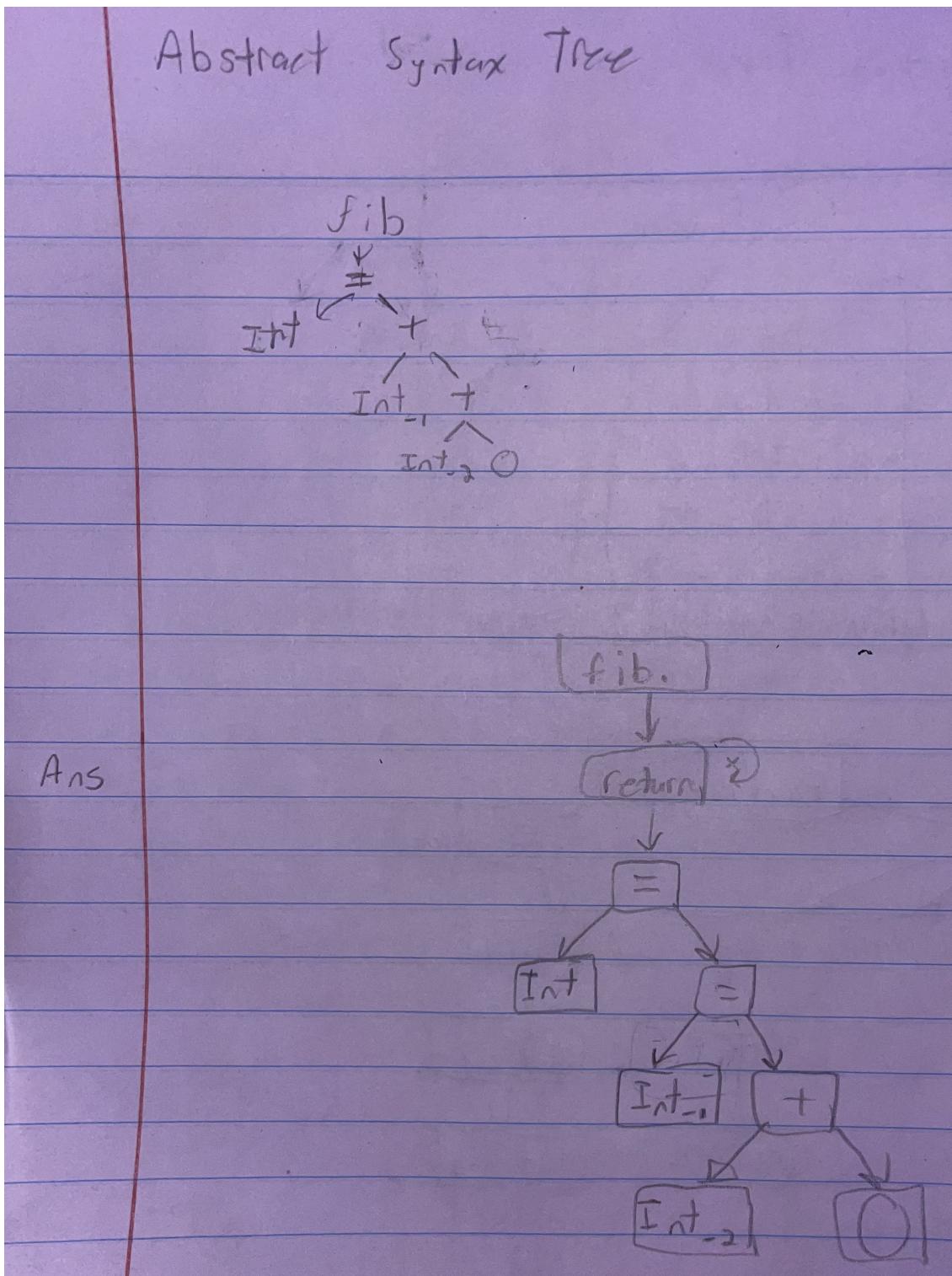


2.4 Week4

Write out the concrete syntax tree for the complete Fibonacci program.

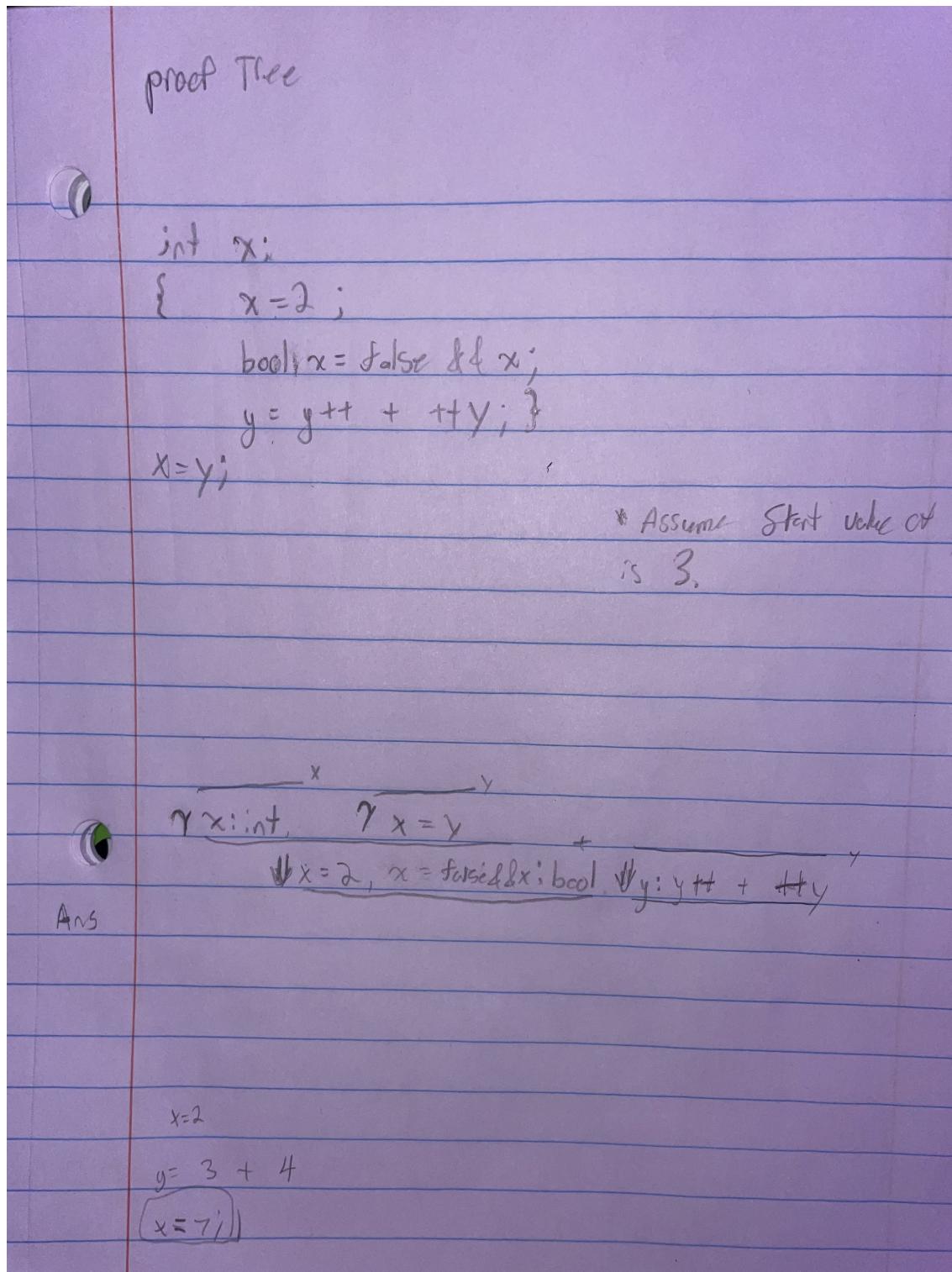


Write out the abstract syntax tree for the complete Fibonacci program.



2.5 Week10

Show, in the form of a proof tree, the steps taken by an interpreter evaluating the following program fragment.



3 Project

The project will be to compile code from a programming language of your choice to assembly and to explain the assembly code and compilation process using the knowledge you learned in this course.

Pro tips:

- Choose a compiled (not interpreted) programming language.
- Choose a language that you find interesting anyway.
- Start early.
- Come to office hours. I have not run this part of the course before and I am really interested what you will find.

4 Conclusions

(approx 400 words)

In the conclusion, I want a critical reflection on the content of the course. Step back from the technical details. How does the course fit into the wider world of programming languages and software engineering?

References

[HMU] John E. Hopcroft, Rajeev Motwani, Jeffrey D. Ullman: [Introduction to automata theory, languages, and computation](#), 3rd Edition. Pearson international edition, Addison-Wesley 2007