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Assignment 1

COMP314 - 2020

GROUP P

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We split into two pairs to do the assignment – Divya and Talha, who were responsible for doing the DFA class (creating a DFA from an NFA using Subset Construction), and Adin and Khulekani, who were responsible for testing (Reading in the text file and determining for each test string if the DFA should accept it or not).

This project was developed using Java JDK 13 and Java Language level 8 (JDK 1.8).

Divya and Talha

Divya

- Did the *Dfa* class
    - Did the epsilonClosure(), move(), and makeDfa() methods
- Did comments and bug fixing

Talha

- Created the files and did the design of the classes
- Did the *DfaState* class
- Did the *Dfa* class
    - Did the fields, constructor and makeDfa(), getAlphabet(), getSigmaLowerAndUpper() methods
- Did comments and bug fixing

Adin and Khulekani

Adin

- Did the *DfaAcceptor* class (the accept() method)

Khulekani

- Did the *RunAssignment* class (the main() method)

The testing of the program was done via the provided input test file – TestData.txt