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Week 3 beginning Monday 4th October 2021 (CS370)

This week I learned how to distinguish between if a set is recognizable or not (a decidable set must be recognizable but it is not sure on the contrary), how to build a recognizer by using a decider, and how to build a enumerator to print all elements from the set in the second tutorial. In addition, In the compiler class and out of the class, I also learned regular expressions, what is the nondeterministic finite automaton (NFA), what is the deterministic finite automaton (DFA), and how to create the transition graph and transition table to correctly represent them. Nonetheless, the biggest trouble I met while studying was how to translate an NFA to a DFA, which is a hard process and that is what I am studying. So far, I surprisingly find the knowledge of computation and complexity can be connected to many fields in the computer because I learned the relevant knowledge in other courses as well.