Lecture #2: Introduction to Deterministic Finite Automata

Questions for Review

1. Give the formal definition of a **deterministic finite automaton** — describing everything that this includes.

2. What is a **transition table?** How is it related to a "transition function"?

3. What is the **extended transition function?** Please give two *equivalent* definitions for this. What is this used for?

4. What does it mean for a deterministic finite automaton to **accept** a string? What does it mean for a deterministic finite automaton to **reject** a string?

5. What is the **language** of a deterministic finite automaton?