

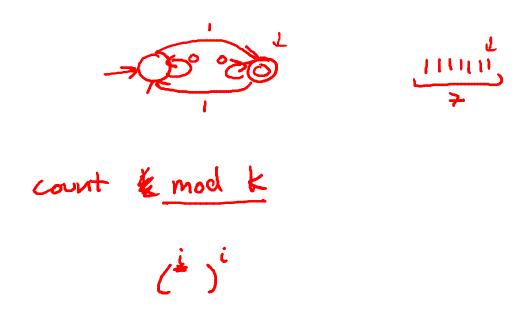
Compilers

Introduction to Parsing

- Regular languages
 - The weakest formal languages widely used
 - Many applications

Consider the language:

What can regular languages express?



• Input: sequence of tokens from lexer

Output: parse tree of the program

Cool

if
$$x = y$$
 then 1 else 2 fi

Parser input

Parser output
IF-THEN-ELSE



Phase	Input	Output
Lexer	String of characters	String of tokens
Parser	String of tokens	Parse tree (may be implicit)