







A Re	ecursive (Grammar
Sentenc	e → Sentenc	e and Sentence
Sentenc	e → Sentenc	e or Sentence
Sentend	e → Noun V	erb Noun
Noun	→ boys	
Noun	→ girls	Grammar is more interesting than the last one because the set of Sentences is infinite
Noun	→ bunnies	
Verb	→ like	
Verb	→see	What makes this set infinite? Answer: Recursive definition of Sentence



































Exercises

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Think about recursive calls made to parse and generate code for simple expressions

Derive an expression for the total number of calls made to parseE for parsing an expression Hint: think inductively

Derive an expression for the maximum number of recursive calls that are active at any time during the parsing of an expression (i.e. max depth of call stack)

