CS224N Fall 2014 Programming Assignment 2

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1 Implementing a CKY Parser
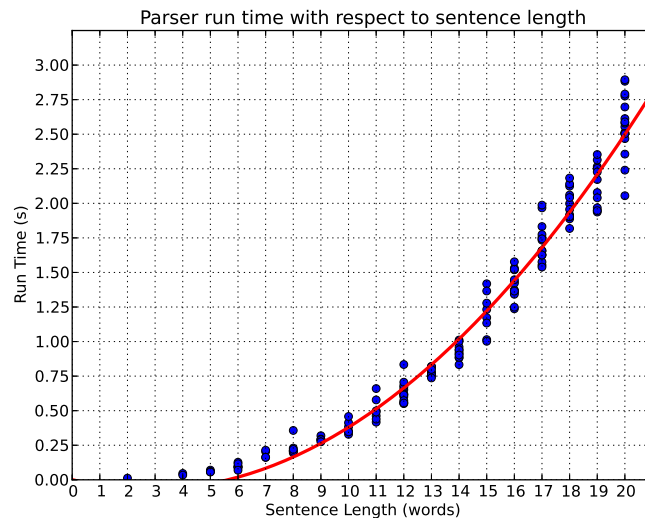
1.1 Algorithm and Naive Implementation

1.2 Optimizations

1.3 Results

1.3.1 Run Time

Algorithm	Total Runtime (s)	Avg. Runtime (s)	Length 20 (s)
Basic	185.48	1.20	2.56

1.3.2 Parsing Score

Algorithm	Precision	Recall	F_1	Exact Match
Basic	80.76	74.63	77.57	20.65

2 Adding Vertical Markovization

3 Extra Credit