Assignment - 5

Dependency Parsing

Dependency Parsing

(1) (a)
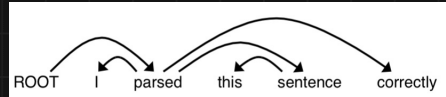
STACK	BUFFER	NEW DEPENDANCY	TRASITION
[ROOT]	[I, parsed, this, sentence, correctly]		Initial Configuration
[ROOT, I]	[parsed, this, sentence, correctly]		SHIFT
[ROOT, I, parsed]	[this, sentence, correctly]		SHIFT
[ROOT, parsed]	[this, sentence, correctly]	parsed → I	Left-Arc
[ROOT, parsed, this]	[sentence, correctly]		SHIFT
[ROOT, parsed, this, sentence]	[correctly]		SHIFT
[ROOT, parsed, sentence]	[correctly]	Sentence → this	Left-Arc
[ROOT, parsed]	[correctly]	parsed → sentence	Right-Arc
[ROOT, parsed, correctly]	[]		Shift
[ROOT, parsed]	[]	parsed → correctly	Right-Arc
[ROOT]	[]	ROOT → parsed	Right-Arc

(b) The sentence of n words will be parsed in **2n** steps.

(a) The 'n' steps being **'SHIFT'** from buffer to stack

(b) Then remaining n steps implementing **'ARC'** methods to create dependencies