Question 1.a

Stack	Buffer	New dependency	Transition
[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]	Parse -> sentence	RIGHT-ARC
[ROOT, parsed, correctly]	[]		SHIFT
[ROOT, parsed]	[]	Parse -> correctly	RIGHT-ARC
[ROOT]	[]	ROOT -> parsed	RIGHT-ARC

Question 1.b

No of steps : **2n**
No of steps to move from buffer to stack is **n** and
n steps for mapping to dependency