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NLP Assignment (I read a book $)

Matched	Stack	Input	Action
	S $	I read a book $	
	S $	I read a book $	S → NP·VP
	r7r8r9r3r4r5 S $	I read a book $	VP $
I	r8r9r3r4r5 S $	read a book $	Match I → VP
	r9 r3 r4 r5 S $	read a book $	VP → Verb PP
	r3 r4 r5 S $	read a book $	VP → ε
	r4 r5 S $	read a book $	NP → ε
	r5 S $	read a book $	NP → det Noun/ε
~~r5~~	~~r5 S $~~	~~a book $~~	~~VP → Verb RP~~
I read	r5 S $	a book $	match read (VP)

Adding Backup Stack :—

I read	r7r8r9 r3 r4r5 S $	a book $	VP → verb NP/ε
	r8r1 r3r4 r5 S $	a book $	VP → ε
	r9 r3r4 r5 S $	a book $	VP → ε / VP NP PP
	r3 r4 r5 S $	a book $	NP → ε
	r4 r5 S $	a book $	NP → det Num
I read a	r5 S $	book $	Match a
	S $	$	Match N
I read a book .	$	$	S → ε