$\mathbf{Out}_t$	$\mathbf{Stack}_t$	$\mathbf{Buffer}_t$	Action	$\mathbf{Out}_{t+1}$	$\mathbf{Stack}_{t+1}$	$\mathbf{Buffer}_{t+1}$	Segments
O	S	$(\mathbf{u},u),B$	SHIFT	O	$(\mathbf{u}, u), S$	B	_
O	$(\mathbf{u},u),\ldots,(\mathbf{v},v),S$	B	$\mathtt{REDUCE}(y)$	$g(\mathbf{u},\dots,\mathbf{v},\mathbf{r}_y),O$	S	B	$(u \dots v, y)$
O	S	$(\mathbf{u},u),B$	OUT	$g(\mathbf{u},\mathbf{r}_{\varnothing}),O$	S	B	—