→ LR(0) item :-

$$S \to AB$$
$$A \to Aa / a$$
$$B \to bBa / ba$$

Rule	LR(0) Context	LR(0) item
$S \to AB$	$\{AB\}$	$S \to \cdot AB,\ S \to A \cdot B,\ S \to AB \cdot$
$A \to Aa$	$\{Aa\}$	$A \to \cdot Aa,\ A \to A \cdot a,\ A \to Aa \cdot$
$A \to a$	$\{a\}$	$A \to \cdot a,\ A \to a \cdot$
$B \to bBa$	$\{Ab^i Ba, i > 0\}$	$B \to \cdot bBa,\ B \to b \cdot Ba,\ B \to bB \cdot a,$ $B \to bBa \cdot$
$B \to ba$	$\{Ab^i ba, i > 0\}$	$B \to \cdot ba,\ B \to b \cdot a,\ B \to ba \cdot$

$\boxed{1}\ B \to bBa \leadsto S \Rightarrow AB$
$\qquad\qquad\qquad \Rightarrow AbBa$
$\qquad\qquad\qquad\overset{x}{\Rightarrow} AbbBa$

$\boxed{2}\ B \to ba \leadsto S \Rightarrow AB$
$\qquad\qquad\qquad \Rightarrow AbBa$
$\qquad\qquad\qquad\overset{x}{\Rightarrow} Abba$

⇒ Non-Determnistic :-
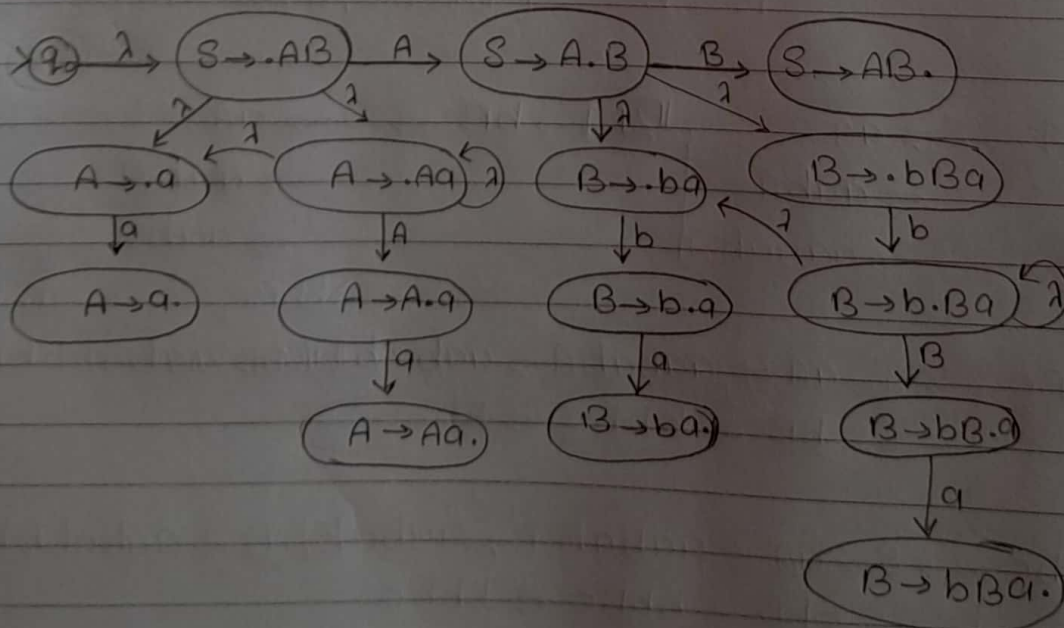
⇒ Notes :-

[1] we move with dotted letter → $(A \to \cdot B)$ $\xrightarrow{B}$ $(A \to B \cdot)$.

[2] check if B has any rules and calculate num of them
to draw the diagram → $B \to \cdot bB$, $B \to \cdot b$