

Q3) $S \rightarrow aB/bA$, $A \rightarrow a/as/bAA$, $B \rightarrow b/bS/aBB$.
Identify the string obtained from this grammar.

Solⁿ

$$S \rightarrow aB$$

$$S \rightarrow bA$$

$$A \rightarrow a$$

$$A \rightarrow aS$$

$$A \rightarrow bAA$$

$$B \rightarrow b$$

$$B \rightarrow bS$$

$$B \rightarrow aBB$$

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~~$S \rightarrow aB$~~

~~$aB \rightarrow aaBB$~~

~~$aaBB \rightarrow aabB$~~

$S \rightarrow aB$

$\rightarrow aaBB$

$\rightarrow aabB$

$\rightarrow aabbS$

$\rightarrow aabbabB$

$\rightarrow aabbabS$

$\rightarrow aaabbabba$

$\rightarrow aaabbabba$