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* given has

$S \rightarrow ABA \mid aBa$

$A \rightarrow aBa \mid bA$

$B \rightarrow Bbb \mid ba$

Left hand derivation

$S \rightarrow ABA$

$S \rightarrow aBaBA$

$S \rightarrow abaBaBA$

$S \rightarrow abaaBBA$

$S \rightarrow abaaBbaBA$

$S \rightarrow abaaBbbabaA$

$S \rightarrow abaaBbbababA$

$S \rightarrow abaaBbbabababaBa$

$S \rightarrow abaaBbbababababaa$
(Ans)