

2.  $S \rightarrow aSb \mid X$

$X \rightarrow bXa \mid \text{Lambda}$

3.  $S \rightarrow X \mid aSb \mid \text{Lambda}$

$X \rightarrow bXa \mid \text{Lambda}$

5.  $S \rightarrow aSa \mid X$

$X \rightarrow aXb \mid \text{Lambda}$

6.  $S \rightarrow aSb \mid U \mid X$

$U \rightarrow aUa \mid Y$

$X \rightarrow bXb \mid Y$

$Y \rightarrow bYa \mid \text{Lambda}$

7. D is not reachable and C, B infinitely loop to each other

$A \rightarrow 0A1 \mid 0$