LL(1) Parsing Example

S ::= a S b | ϵ

Remaining Input: aaabbb

Sentential Form: aSb

Applied Production: S ::= a S b
LL(1) Parsing Example

**Remaining Input:**

**Sentential Form:**

**Applied Production:**

\[ S ::= a S b \mid \epsilon \]
LL(1) Parsing Example

S ::= a S b | ε

Remaining Input: aabbb

Sentential Form: aSb

Applied Production: S ::= a S b
LL(1) Parsing Example

Remaining Input:

aabbb

Sentential Form:

aaSbb

Applied Production:

S ::= a S b
LL(1) Parsing Example

$S ::= aSb | \epsilon$

Remaining Input: aabbb

Sentential Form: aaSbb

Applied Production: $S ::= aSb$
LL(1) Parsing Example

S ::= a S b | ε

Remaining Input: abbb

Sentential Form: aaSbb

Applied Production: S ::= a S b
LL(1) Parsing Example

\[ S ::= a S b \mid \epsilon \]

Remaining Input:
\text{abbb}

Sentential Form:
\text{aaaSbb}

Applied Production:
\[ S ::= a S b \]
LL(1) Parsing Example

### Grammar

\[ S ::= aSb \mid \epsilon \]

### Remaining Input

\[ abbb \]

### Sentential Form

\[ aaaSbbb \]

### Applied Production

\[ S ::= aSb \]
LL(1) Parsing Example

\[ S ::= a \, S \, b \mid \epsilon \]

Remaining Input: bbb

Sentential Form: aaaSbbb

Applied Production: \[ S ::= a \, S \, b \]
LL(1) Parsing Example

Sentential Form:

aaabbb

Applied Production:

S ::= ε
LL(1) Parsing Example

\[ S ::= a \, S \, b \mid \varepsilon \]

Remaining Input:

\[ bbb \]

Sentential Form:

\[ aaabbb \]

Applied Production:
LL(1) Parsing Example

\[ S ::= a \, S \, b \mid \varepsilon \]

Remaining Input:
bb

Sentential Form:
aaabb

Applied Production:
LL(1) Parsing Example

\[ S ::= a \, S \, b \mid \epsilon \]

Remaining Input: \[ bb \]

Sentential Form: \[ aaabbb \]

Applied Production:
LL(1) Parsing Example

\[ S ::= a S b | \epsilon \]

Remaining Input: 
\[ b \]

Sentential Form: 
\[ aaabbb \]

Applied Production:
LL(1) Parsing Example

\[ S ::= a \, S \, b \mid \epsilon \]

Remaining Input:

\[ b \]

Sentential Form:

\[ aaabbb \]

Applied Production:
LL(1) Parsing Example

$S ::= a \, S \, b \mid \epsilon$

Remaining Input:

Sentential Form:

$aaabbb$

Applied Production:
LL(1) Parsing Example

Remaining Input: bb

Sentential Form: aaabbb

Applied Production: 

$S :: = a S b | \epsilon$