Örnek

$$L = \left\{ 0^{i} 1^{j} 0^{k} \mid j > i + k \right\}$$
$$j = i + k i \varsigma i n$$

 $L \ dili = \left\{ \begin{array}{c|c} 0^i 1^i 1^m 1^k 0^k & m \geq 1 \end{array} \right\} \ olacaktur.$

$$L_{1} = \left\{ \begin{array}{c|c} 0^{i}1^{i} & i \geq 0 \end{array} \right\} \rightarrow A \Rightarrow 0A1 \mid \lambda$$

$$L_{2} = \left\{ \begin{array}{c|c} 1^{m} \mid m > 0 \end{array} \right\} \rightarrow B \Rightarrow 1B \mid 1$$

$$L_{3} = \left\{ \begin{array}{c|c} 1^{k}0^{k} \mid k \geq 0 \end{array} \right\} \rightarrow C \Rightarrow 1C0 \mid \lambda$$

$$S \Rightarrow ABC$$

$$A \Rightarrow 0A1 \mid \lambda$$

$$B \Rightarrow 1B \mid 1$$

$$C \Rightarrow 1C0 \mid \lambda$$

Örnek

$$S \Rightarrow aSe \mid XY$$
$$X \Rightarrow aXc \mid b$$
$$Y \Rightarrow cYe \mid d$$

Ağaç Modeli ile Çözüm

$$a \underset{s}{\overset{S}{\longleftrightarrow}} e$$

$$X \text{ için;}$$
 $a \underset{x}{\longleftrightarrow} c$
 $a \underset{m}{\longleftrightarrow} c$
 $a^m X c^m$
 $m \ge 0$

$$Y i \varsigma i n;$$
 $c \overset{Y}{\longleftrightarrow} e$
 $c \overset{Y}{\longleftrightarrow} e$
 $c \overset{Y}{\longleftrightarrow} e$
 $c \overset{Y}{\longleftrightarrow} e$
 $k \ge 0$

Örnek

$$L = \left\{ a^{2k} \underbrace{b^n c^{2n}}_{A} d^k \mid k \ge 1, n \ge 1 \right\}$$

$$S \Rightarrow aaSd \mid aaAd$$

$$A \Rightarrow bAcc \mid bcc$$

Örnek

$$L=\{\,a^{n+m}b^kc^{m+k}d^{2n}\,\,\big|\,n,m,k\geq 0\,\}$$
 Bunu şu şekilde de yazabiliriz ve yanlış olmaz.
$$a^na^mb^kc^mc^kd^{2n}$$

$$\underbrace{a^n d^{2n}}_{S \Rightarrow aSdd \mid A}$$

Şimdi arada kalanlar için;

$$\underbrace{a^m c^m}_{A \Rightarrow aAc \mid B}$$

$$\underbrace{b^k c^k}_{B \Rightarrow bBc} \mid \lambda$$