

Esempio 4.6 pag.95.

$$L = \{a^i b^j c^k \mid (i = j \vee j = k)\}$$

$$L = L1 \cup L2$$

$$L1 = \{w \in X^* \mid w = a^i b^i c^k, i > 0, k > 0\} \quad (i=j)$$

$$L2 = \{w \in X^* \mid w = a^i b^k c^k, i > 0, k > 0\} \quad (j=k)$$

G1 t.c.  $L(G1)=L1$

$S1 \rightarrow AC$

$A \rightarrow ab \mid aAb$

$C \rightarrow c \mid cC$

G t.c.  $L(G)=L$

$S \rightarrow S1 \mid S2$

G2 t.c.  $L(G2)=L2$

$S2 \rightarrow DE$

$D \rightarrow a \mid aD$

$E \rightarrow bc \mid bEc$

$z=aaabbbccc$

$S \Rightarrow S1 \Rightarrow AC \Rightarrow \dots \Rightarrow aaabbbccc$

$S \Rightarrow S2 \Rightarrow DE \Rightarrow \dots \Rightarrow aaabbbccc$