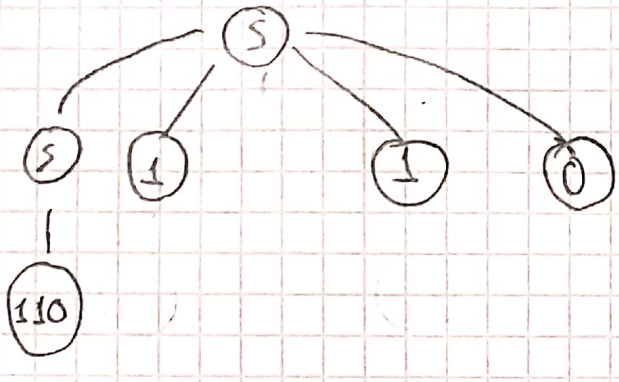
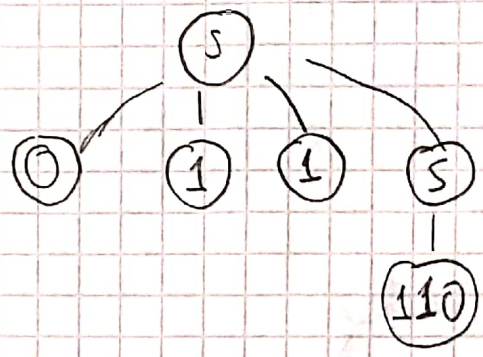
Q1-) $0^m 1^n \mid 0<m<n$

$S \rightarrow S110 \mid 011S \mid \epsilon \mid 110 \mid$





Eğer biz 110110 yapmak istersek bunu sadece tek taraftan yapabiliyoruz. Bu yüzden "ambigious' değildir.

Q2-) • $E*E \rightarrow I1*E \rightarrow Ia1*E \rightarrow aa1*E \rightarrow aa1*(E)$

$\rightarrow aa1*(I0) \rightarrow aa1*(I00) \rightarrow aa1*(b00) \rightarrow$ Left

• $E*E \rightarrow E*(E) \rightarrow E*(I0) \rightarrow E*(I00) \rightarrow E*(b00)$

$\rightarrow I1*(b00) \rightarrow Ia1*(b00) \rightarrow aa1*(b00) \rightarrow$ Right

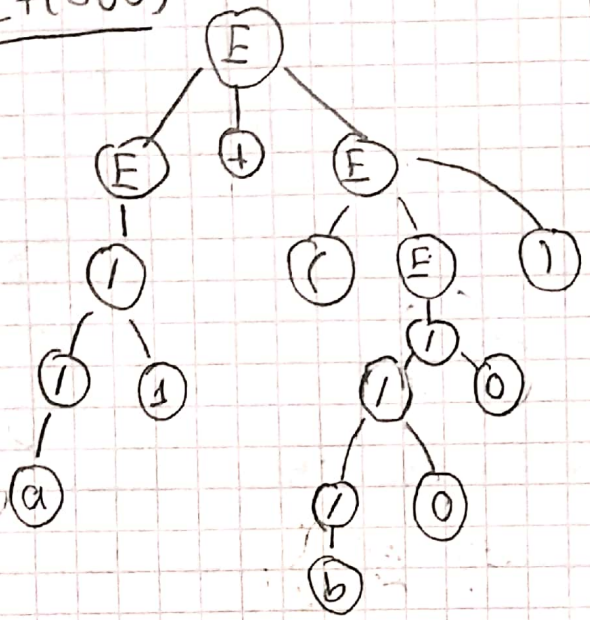
• $E+E \rightarrow (E)+E \rightarrow (I1)+E \rightarrow (b1)+E \rightarrow (b1)+E*E \rightarrow$

$(b1)+(E)*E \rightarrow (b1)+(I0)*E \rightarrow (b1)+(I10)*E \rightarrow (b1)+(a10)*E$

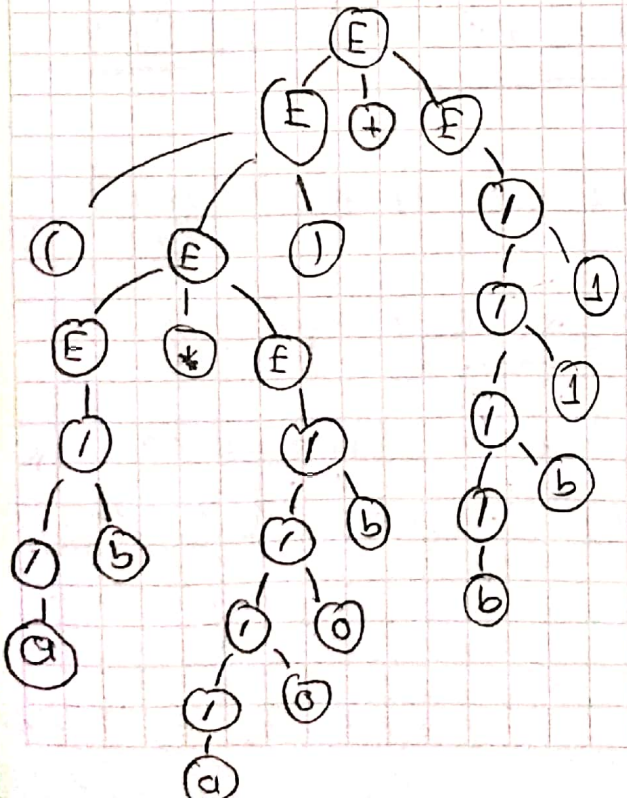
$\rightarrow (b1)+(a10)*b \rightarrow$ Left

- E → E+E → E*b → E+E*b → E+(E)*b
→ E+(/0)*b → E+(/10)*b → E+(a10)*b → (E)+(a10)*b
→ (/1)+(a10)*b → (b1)+(a10)*b → Right

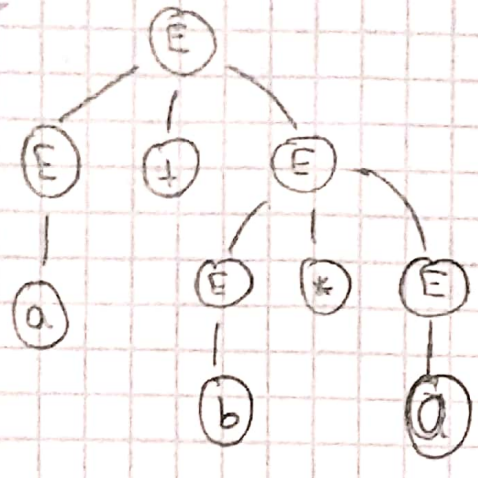
- a1+(b00)

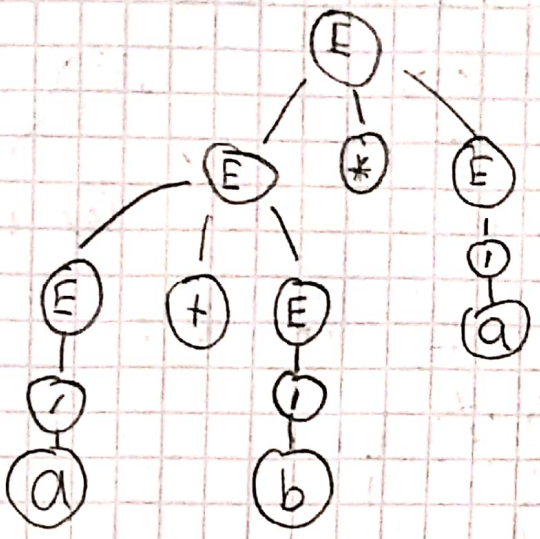


- (ab*a00b)+bb11

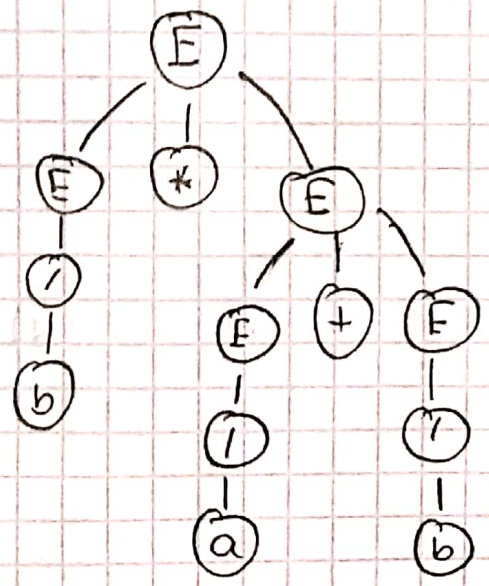


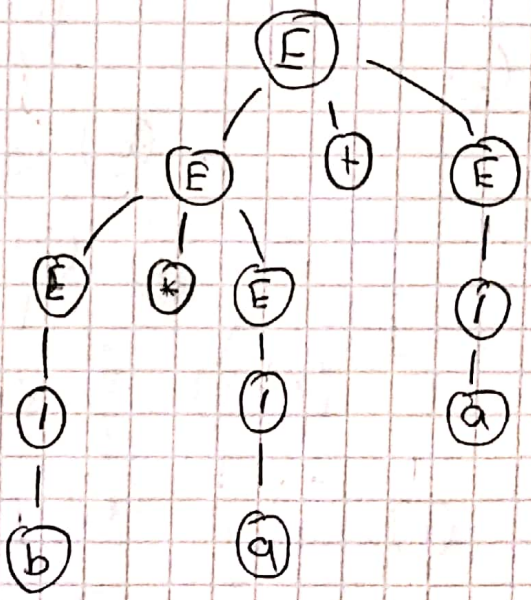
Q3 → a+b*a



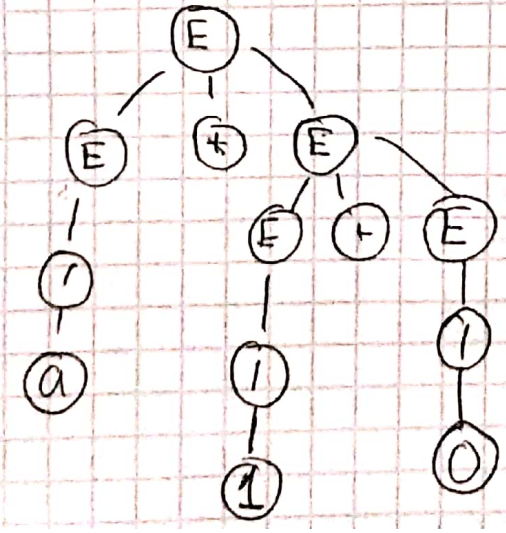


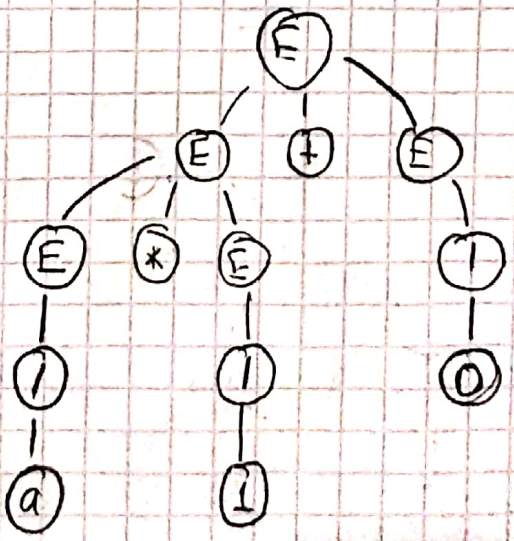
b*a+b



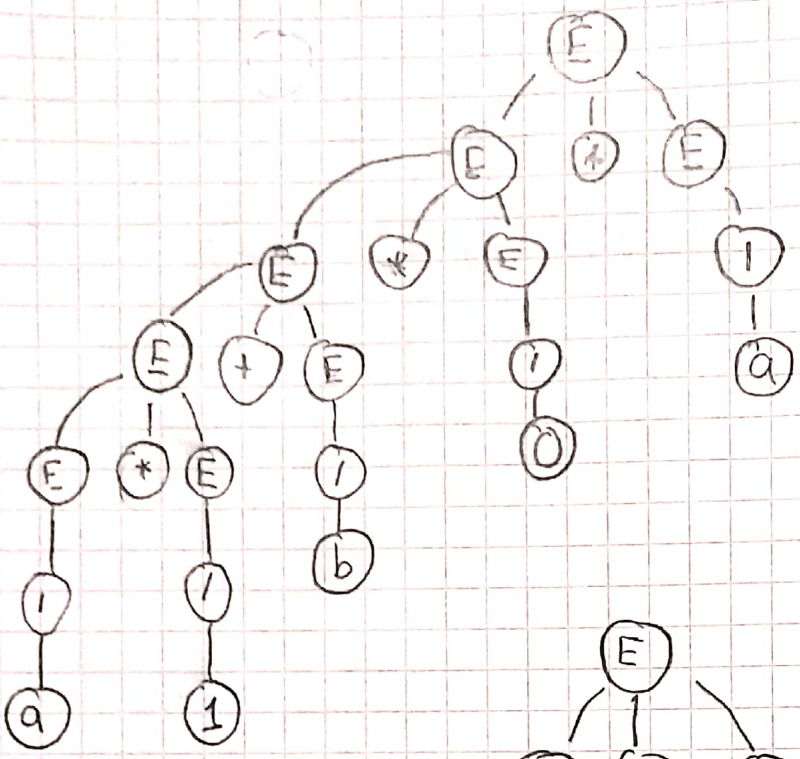


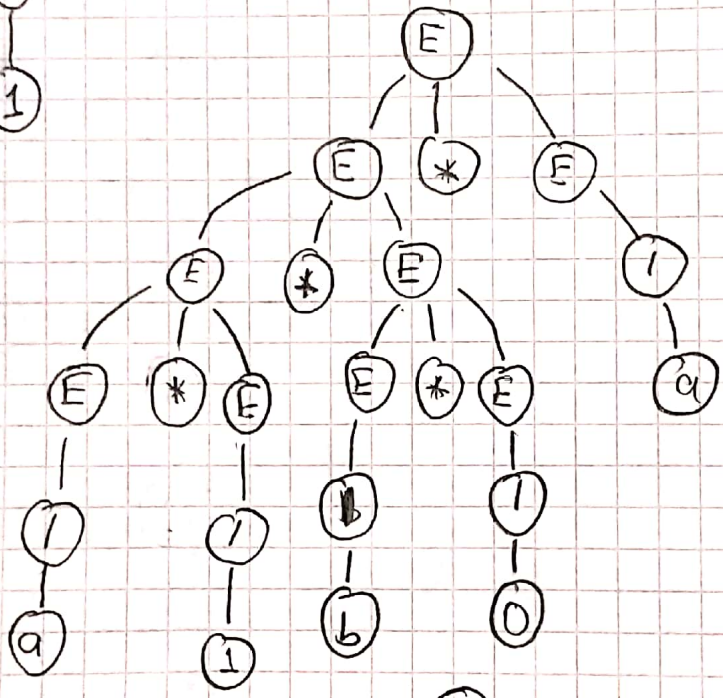
a*1+0

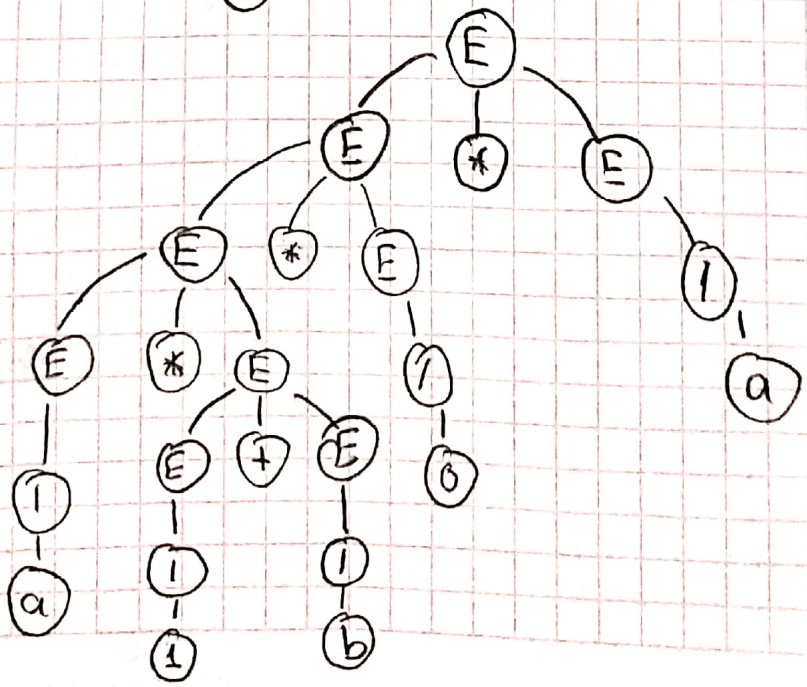




(1)4 → a*1+b*0*a







Q5 → L → 0, 1

- $1(01)^*1 + 1 \rightarrow RE$

$G = (V, T, P, S)$

$T = 0, 1$,

$S = S$

$V = S$

$P = S \rightarrow 1,\ S \rightarrow 0,\ S \rightarrow 1S1,\ S \rightarrow \epsilon,\ S \rightarrow S1,\ S \rightarrow S0$