

$$N \rightarrow P \mid P.P$$

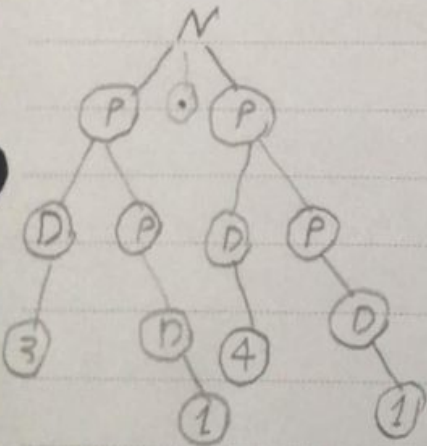
$P \rightarrow DPID$

$$D \rightarrow 0 \quad (1|2| \dots)$$

چون D تولید کننده رقم است $\Rightarrow DD.DD = 31.91$

$$N \rightarrow P.P$$

$P \rightarrow DP$?

$$P \rightarrow D \downarrow$$
$$\} \Rightarrow N \rightarrow \underline{DD.DD} = 31.41$$


ب)

$$s \rightarrow (s) \mid s \wedge s \mid s \vee s \mid \neg s \mid \perp \mid 0, w = (1 \wedge 1 \wedge 0) \vee (\neg 0 \wedge (1 \vee 0))$$

خب اجتماع بین دو گروه ① و ② است پس ابتدا از ④ و ⑤ شروع و ① و ② را می‌سازیم

$$\begin{array}{c} \textcircled{1} \quad \textcircled{2} \\ \downarrow \quad \downarrow \\ (s) \quad (s) \end{array} \Rightarrow s = s \wedge s = (s \wedge s) = (s \wedge s \wedge s) \quad \left. \begin{array}{l} s \rightarrow 1 \\ s \rightarrow 0 \end{array} \right\} \Rightarrow = (1 \wedge 1 \wedge 0) (*)$$
$$\begin{aligned} S &= S \wedge S \\ \sim S \quad (SVS) \quad \left. \begin{array}{l} \Rightarrow \sim S \wedge (SVS) \\ S \rightarrow 0 \quad S \rightarrow 1 \quad S \rightarrow 0 \end{array} \right\} & \sim 0 \wedge (1V0) \stackrel{(P)}{\Rightarrow} (\sim 0 \wedge (1V0)) \textcircled{*} \textcircled{*} \end{aligned}$$
$$\Rightarrow (1 \wedge 1_c) \vee (\sim_c \wedge (1_{V_0})) = W$$
