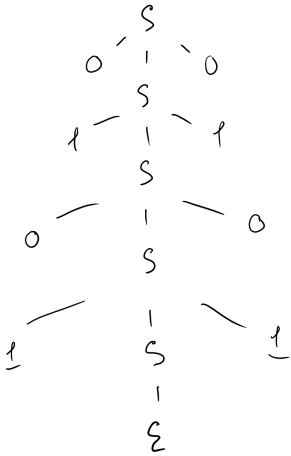


① $G = \langle V_T, V_N, P, S \rangle$

$$V_T = \{0, 1\}, \quad V_N = \{S\}, \quad P = \{S \rightarrow 0S0 \mid 1S1 \mid \varepsilon\}$$



$$S \rightarrow 050 \rightarrow 01510 \rightarrow 0105010 \rightarrow 010151010 \rightarrow 01011010$$

$$S \rightarrow aSA \mid aT$$

$$\overline{1A} \rightarrow b\overline{1a}$$

$$aA \rightarrow Aa$$

$$\gamma \rightarrow ba$$

$$S \rightarrow a^n S A^n \rightarrow a^{n+1} T A^n \left[\rightarrow a^{n+1} b^i T a^i A^{n-i} \rightarrow \dots \rightarrow a^{n+1} b^i T A^n a^i \hookrightarrow \right]$$

$$n \geq 0$$

$$\rightarrow a^{n+1} b^n \bar{a}^n \rightarrow \underline{a^{n+1} b^{n+1} a^{n+1}}$$

```
while n-i ≥ 0
    i = i..n
```