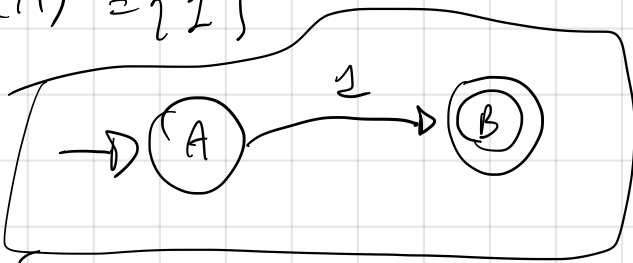


$$L(A) = \{1\}$$

$$\Sigma = \{0, 1\}$$



$S = \emptyset$ NOT ACCEPTED

$S = 1$ ACCEPTED

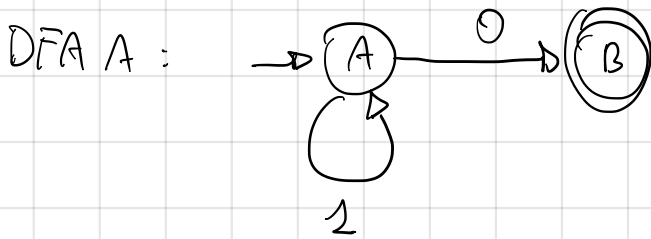
$A \xrightarrow{1} B \in F$

| | | |
|---|---|---|
| | 0 | 1 |
| A | - | B |
| B | - | - |

$S = 10$ NOT ACCEPTED

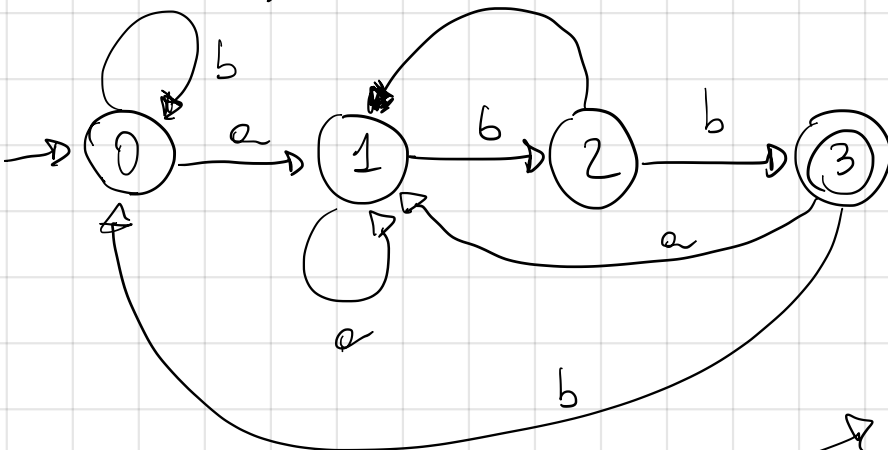
$A \xrightarrow{1} B \notin F$

$$L(A) = \{1^m 0 \mid m \geq 0\} \text{ r.e. } 1^* 0$$



$$\text{r.e. } (a|b)^* abb$$

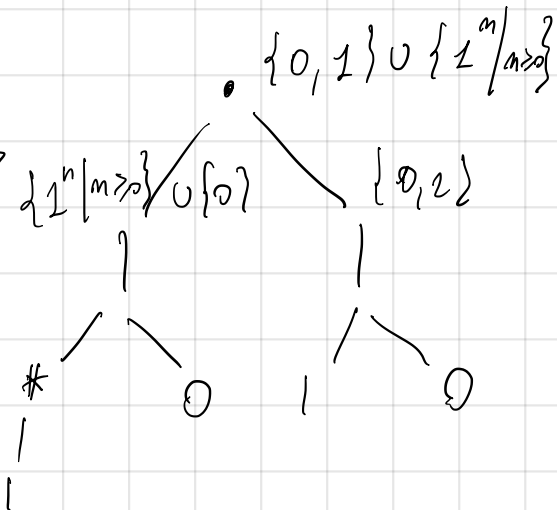
DFA



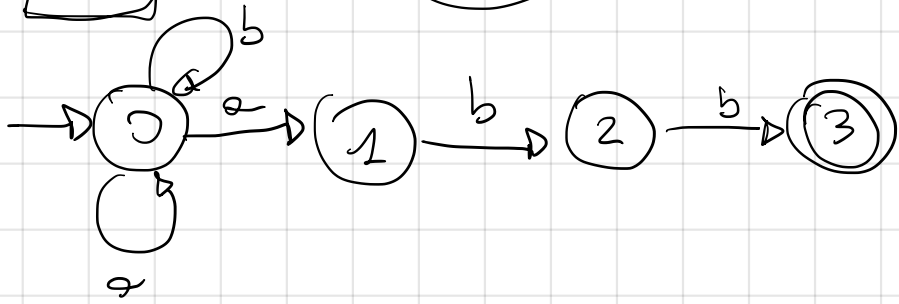
abbabb

abbbbbbabb

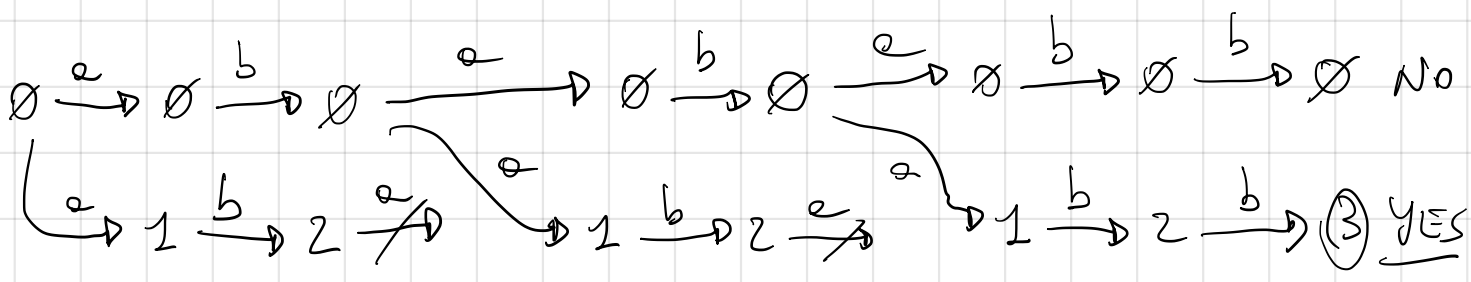
$$(1^*0)(1|b)$$

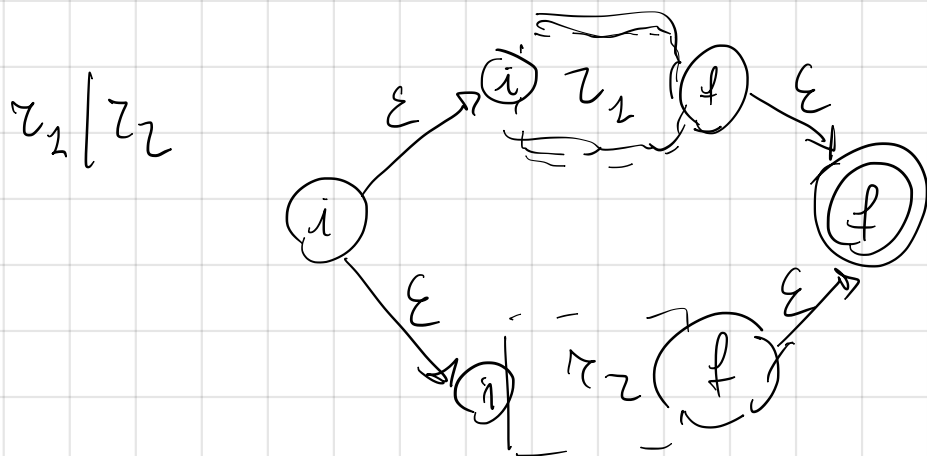
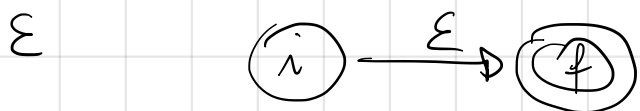


$(a|b)^*abb$ (NFA)



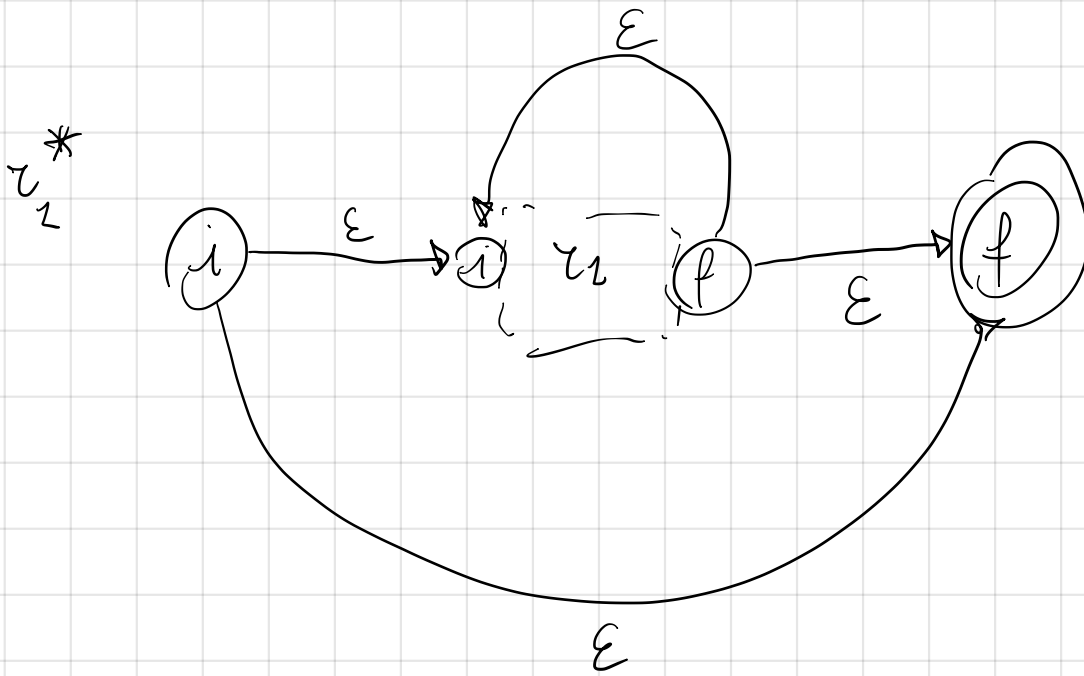
abababbb ACCEPTED



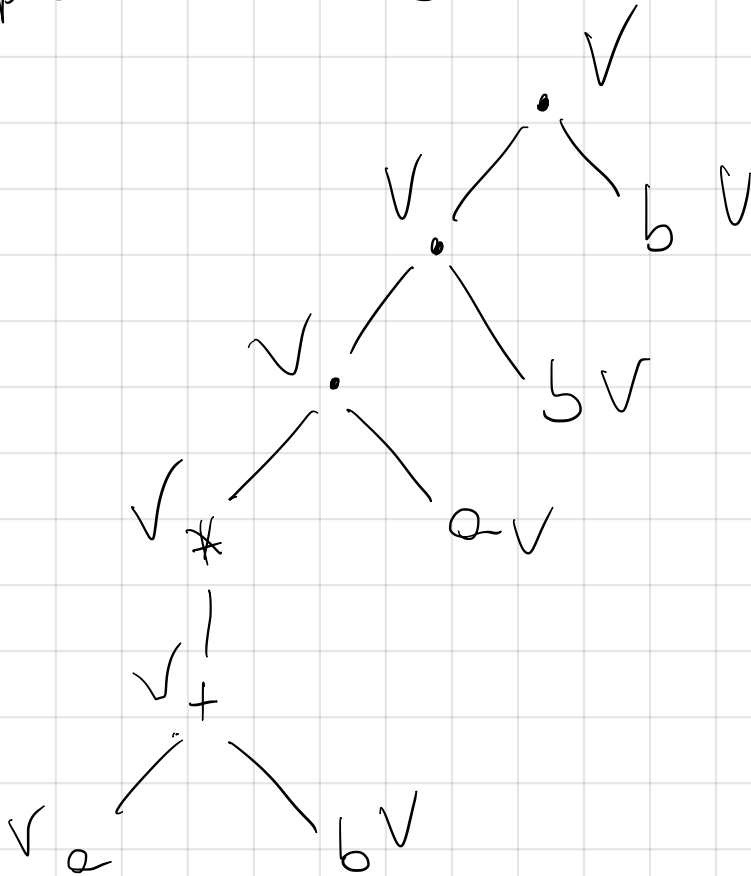


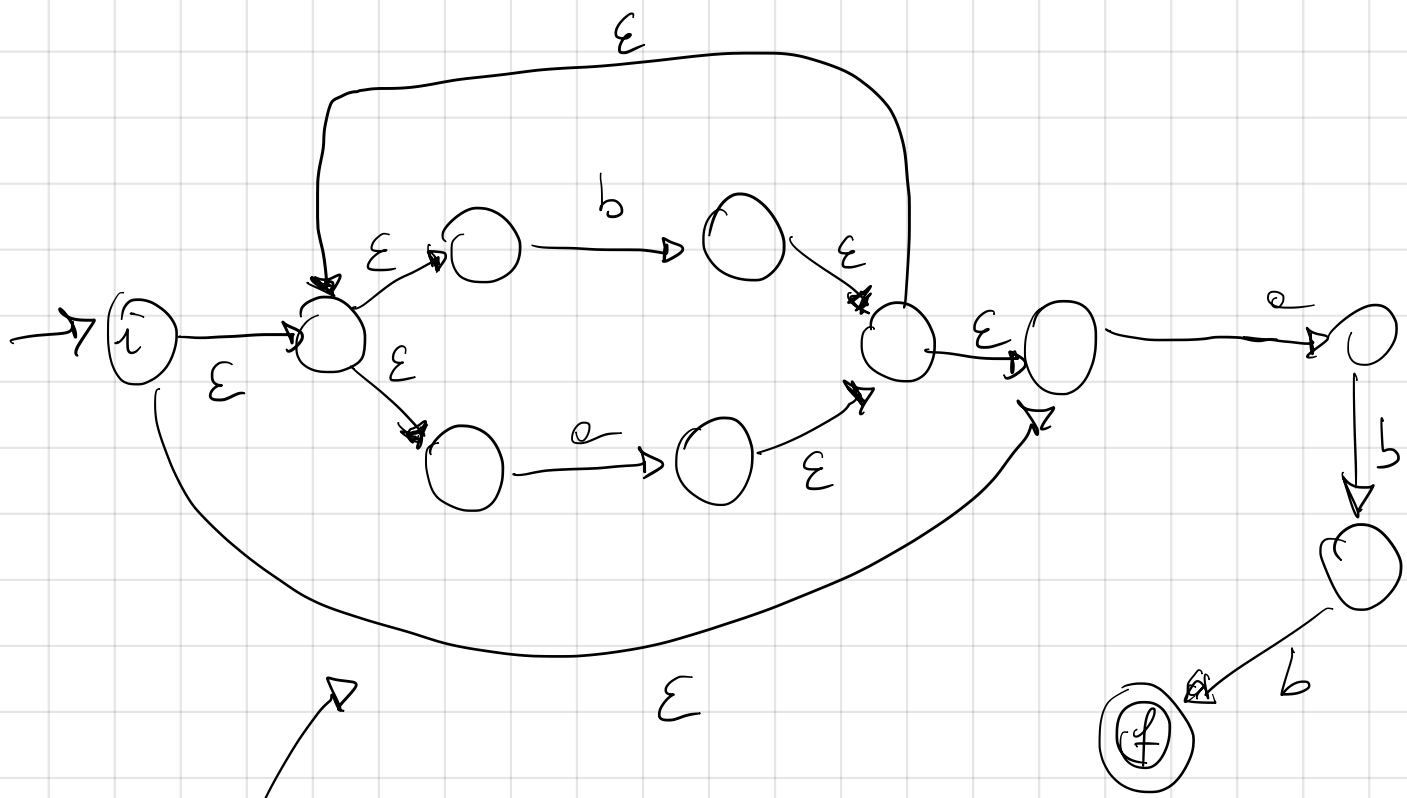
identify/merge/overlay





Application to $(atb)^* \cdot a \cdot b \cdot b$





$(a|b)^* a b b$