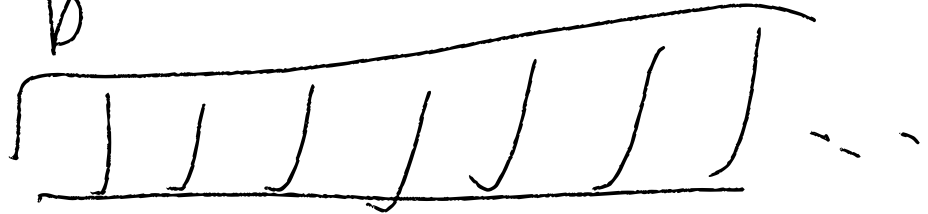


Dimp



$W \neq W$

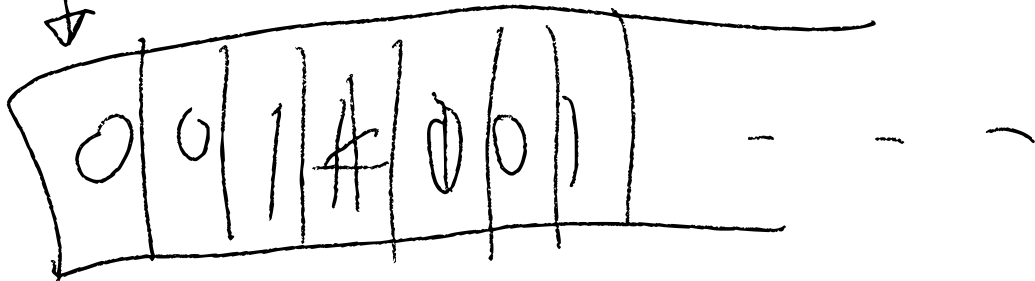
$W \in \{0, 1\}^*$



the language of twin strings

$w \neq w$ $w \in \{0,1\}^*$

PA



$\partial \quad 0 \quad | \quad \# \quad 0 \quad 0 \quad |$
 $\times \quad 0 \quad | \quad \# \quad 0 \quad 0 \quad |$
 $\xrightarrow{\hspace{10em}}$

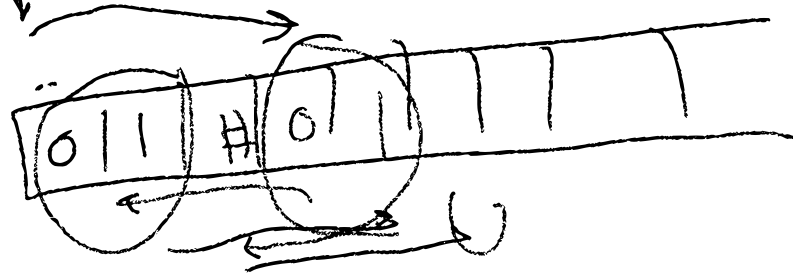
$\neq \quad 0 \quad | \quad \# \quad \neq \quad 0 \quad |$
 $\xleftarrow{\hspace{10em}}$
 $\times \quad \times \quad | \quad \# \quad \neq \quad 0 \quad |$

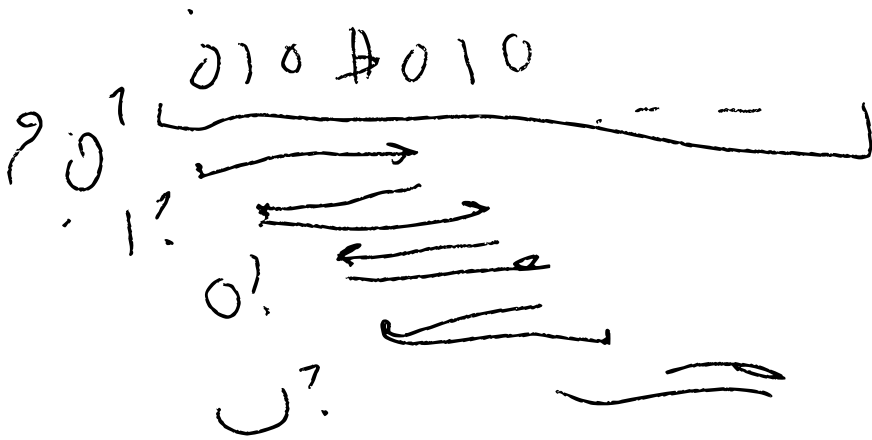
$\times \quad \times \quad \uparrow \quad \xrightarrow{\hspace{10em}}$
 $\quad \quad \quad \uparrow \quad \# \quad \neq \quad \neq \quad \uparrow$
 $\quad \quad \quad \downarrow \quad \# \quad \neq \quad \neq \quad \downarrow$

XXXX | XXXX |

XXXXX | XXXX | 0

Accept!



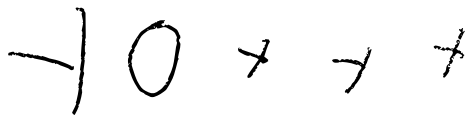


strings
 equal

$$2^d \rightarrow 2^i / 2 = 2^{i+1}$$

... $\rightarrow 1$

$$4 = 2^2$$

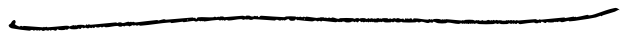


only left ...

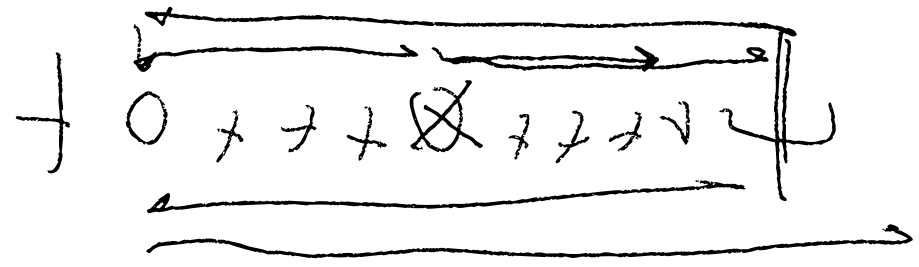
Accept

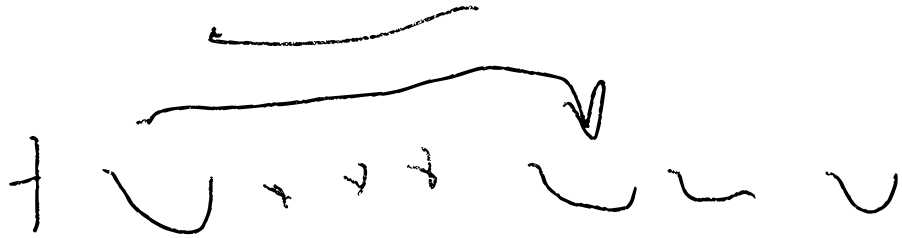
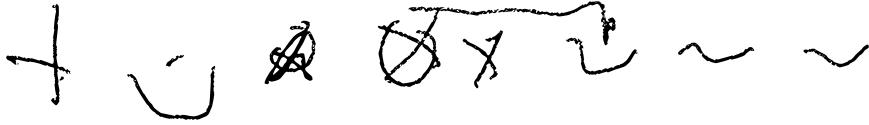
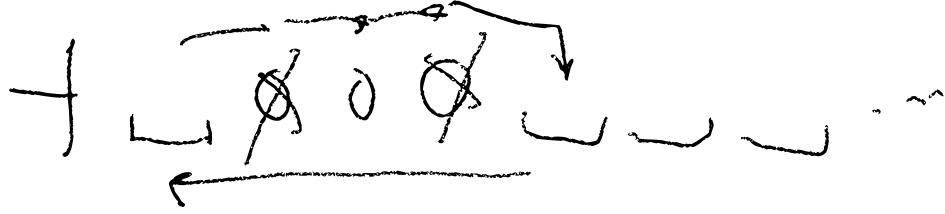
$\vdash \overset{\curvearrowright}{0} \otimes \overset{\curvearrowright}{0} \otimes \overset{\curvearrowright}{0} \otimes \overset{\curvearrowright}{0}$
 $\vdash \overset{\curvearrowright}{0} \times \overset{\curvearrowright}{0} \times \overset{\curvearrowright}{0} \times \overset{\curvearrowright}{0}$

Regio

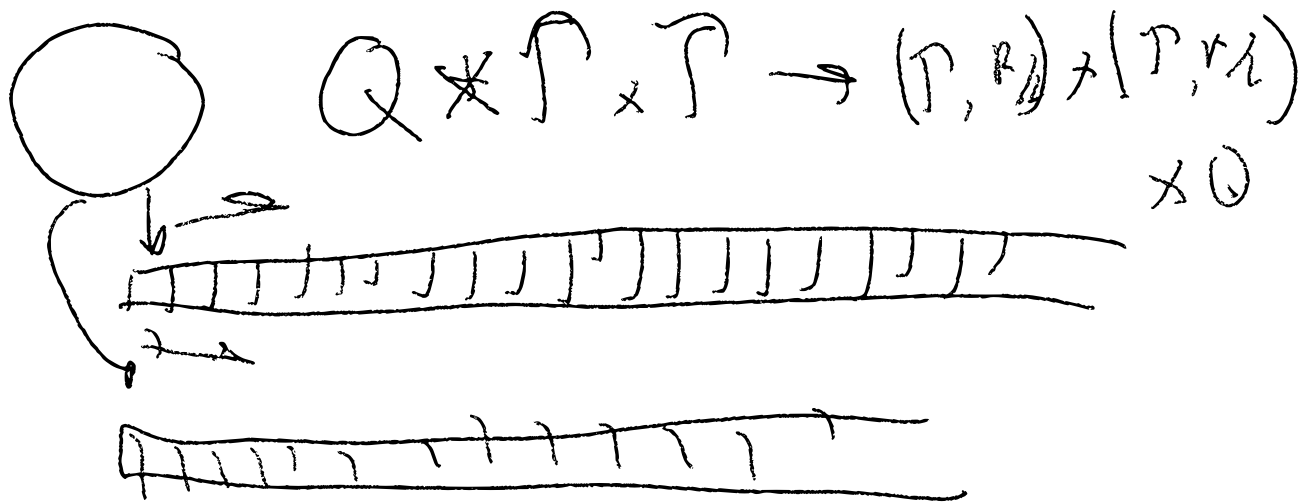


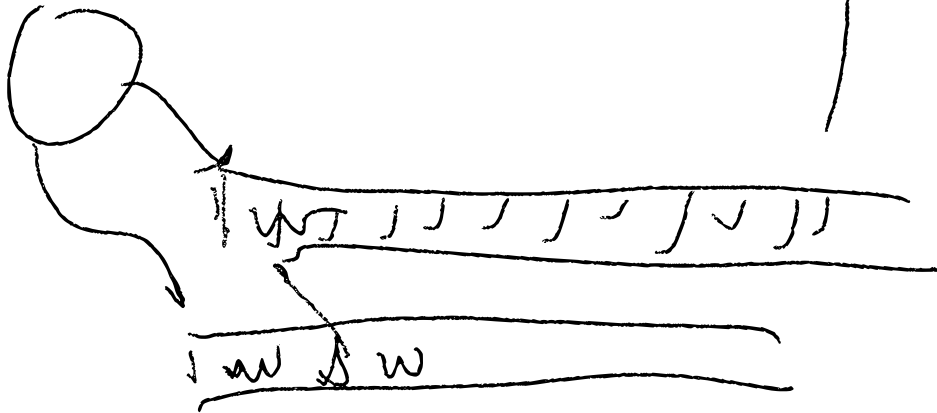
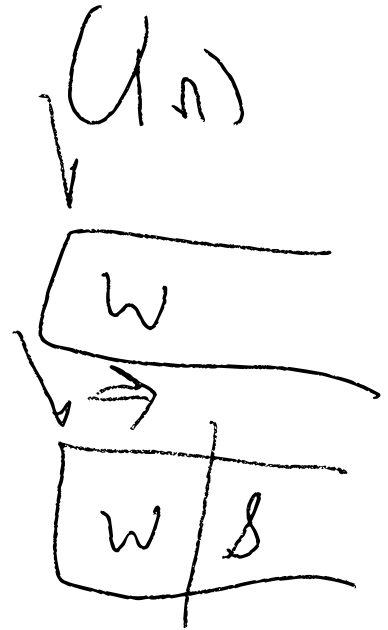
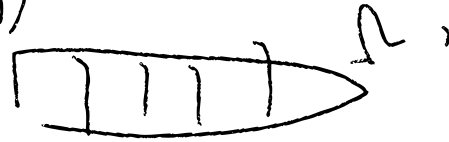
$\vdash \overset{\curvearrowright}{0} \otimes \overset{\curvearrowright}{0} \otimes \overset{\curvearrowright}{0}$





$TM_1 \cong TM - NB \cong TM - MT$
 merlin multi type





$$\frac{\sqrt{h}}{h} \rightarrow \frac{1}{\sqrt{h}} \rightarrow 0$$

$$I_M - I_M \approx I_M$$

Prüfung

