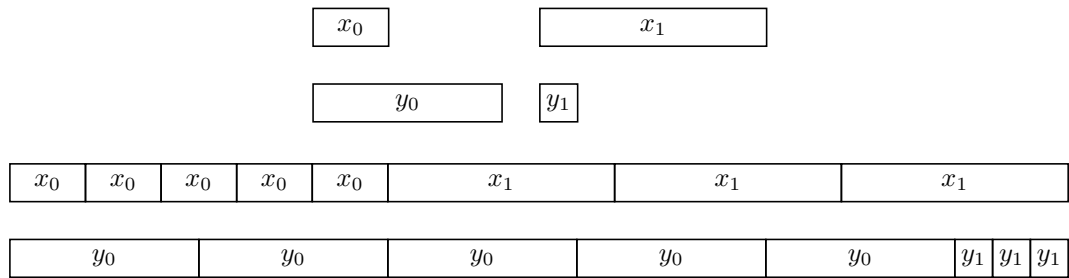
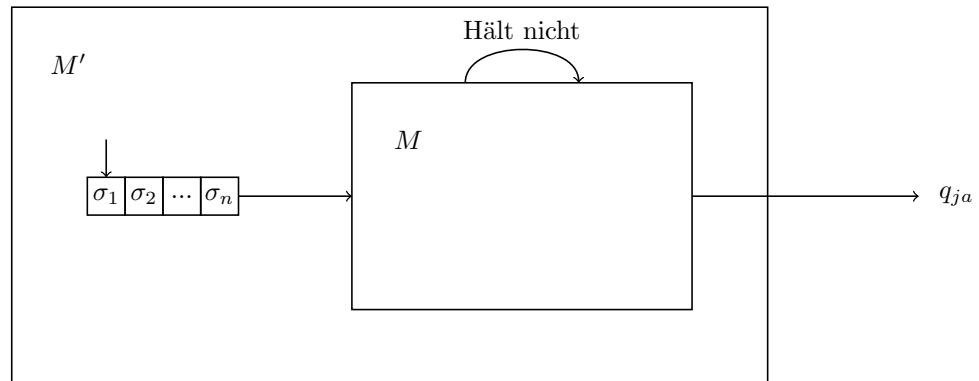


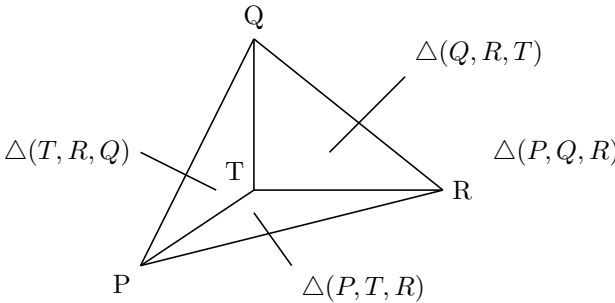
On the Post Correspondence Problem



On the Halting Problem



Triangulation of a Triangle

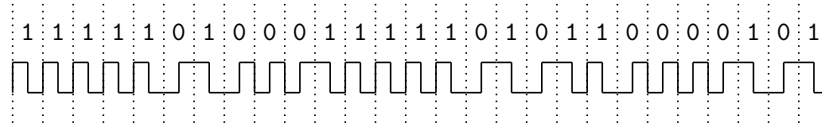


Matrices

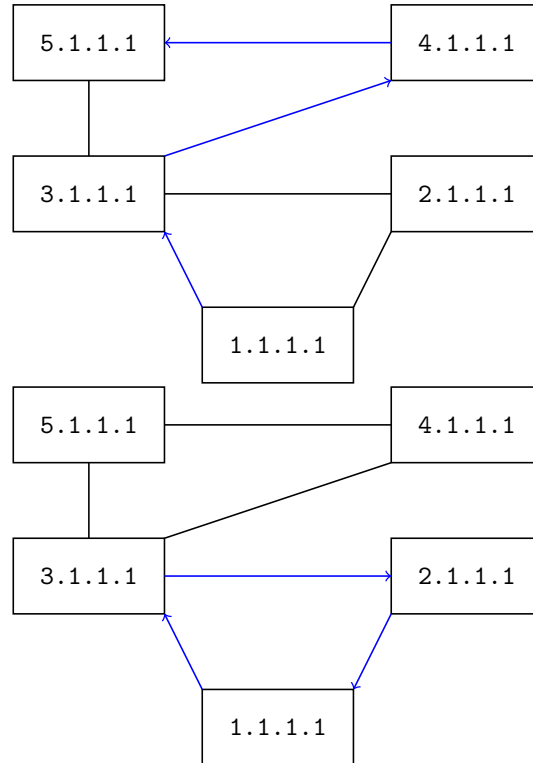
$$C = \left(\begin{array}{ccc|ccc} a_{11} & \dots & * & * & \dots & * \\ \vdots & & \vdots & \vdots & & \vdots \\ 0 & \dots & a_{rr} & * & \dots & * \\ \hline 0 & \dots & 0 & 0 & \dots & 0 \\ \vdots & & \vdots & \vdots & & \vdots \\ 0 & \dots & 0 & 0 & \dots & 0 \\ \hline & & & b_{11} & \dots & * \\ & & & \vdots & & \vdots \\ & & & 0 & \dots & b_{ss} \\ & & & \hline & & & 0 & \dots & 0 \\ & & & \vdots & & \vdots \\ & & & 0 & \dots & 0 \end{array} \right)$$

$$C' = \left(\begin{array}{cccccc|ccc} a_{11} & \dots & \dots & \dots & \dots & * & * & \dots & * \\ \vdots & & \ddots & & & \vdots & \vdots & & \vdots \\ \vdots & & & a_{rr} & & \vdots & \vdots & & \vdots \\ \vdots & & & & b_{11} & \vdots & \vdots & & \vdots \\ \vdots & & & & & \ddots & \vdots & & \vdots \\ \vdots & & & & & & \vdots & & \vdots \\ 0 & \dots & \dots & \dots & \dots & b_{ss} & * & \dots & * \\ \hline 0 & \dots & \dots & \dots & \dots & 0 & 0 & \dots & 0 \\ \vdots & & & & & \vdots & \vdots & & \vdots \\ 0 & \dots & \dots & \dots & \dots & 0 & 0 & \dots & 0 \end{array} \right)$$

Manchester Encoding



Network Package Routing



Swapping Algorithm

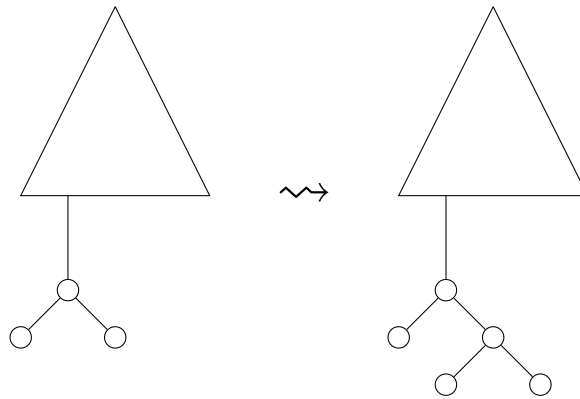
Algorithm 1 Swapping values

```

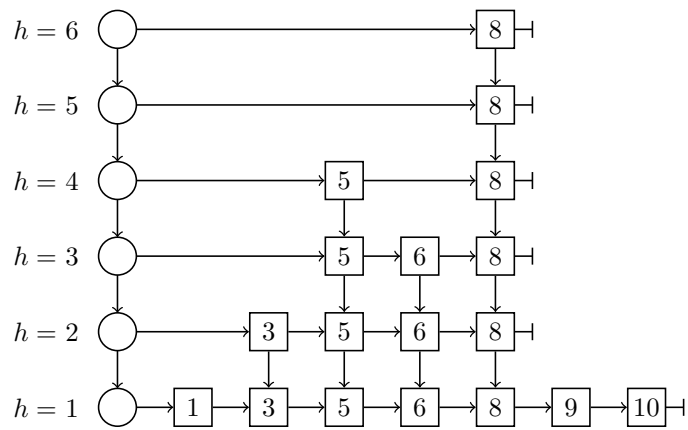
1: procedure SWAP( $a, b$ )
2:    $t \leftarrow a$ 
3:    $a \leftarrow b$ 
4:    $b \leftarrow t$ 

```

Binary Trees



Skip List



Countinuous First Neighbors

