```
\ddot{\mathbf{a}}_{sym.png} Turingmachine. \ddot{k} \in \overset{\overset{.}{N}}{N} k-Band-Turingmachine \overset{.}{M} = (Q, \Sigma, \Delta, s, F) Zu-tand-
   tand-
menge
   Eingabeal-
pha-
bet
  \Sigma
Ban-
dapha-
bet
\Sigma \subseteq
/\Sigma
\Delta \subset
Q \times k \to \subseteq
X \subseteq S
R^k
   \overset{\text{Q.}}{\times} L, S, R^k
  tieren-
den
Zustände
Blank
  Σiank
β
in-
struk-
tio-
pen
   (q_1,a_1,\cdots,a_k,q',a_1',\cdots,a_k',B_1,\cdots,B_k) An-
weisungteil
   \begin{array}{c} \text{de-}\\ \text{ter-}\\ \text{min-}\\ \text{is-}\\ \text{che}\\ \text{k-}\\ \text{Band}\\ \text{Tur-}\\ \text{ima-}\\ \text{chine}\\ \forall b \in \\ Q \times^k \end{array}
  \begin{array}{l} \overset{Q}{\circ} \wedge \\ \overset{i}{\circ} \in \\ \Delta \\ M = \\ (Q, \Sigma, \Gamma, \Delta, s, F) \\ \overset{\mathbf{Kon-}}{\mathbf{gra-}} \end{array}
   tion C = (q, w_1, \dots, w_k, p_1, \dots, p_k) \in Q \times (p^*)^k \times N^k
 Startkon-
fig-
Ha-
tion
(u_1, \dots, u_n) \in (\Sigma^*)^n
n \in N
Start_M(u_1, \dots, u_n) = (s, u_1u_2 \dots u_n, \dots, 1, \dots, 1)
   Stopp-
kon-
gra-
    țion
```

```
1, fallsp_i \ge 2undB_i = L
\begin{array}{l} 2undB_{i}^{-} = \\ L\\ p_{i}, fallsB_{i} = \\ S\\ p_{i} + \\ 1, fallsB_{i} = \\ W\\ i \in \\ \hline{M}\\ C \to_{M}\\ C' \to_{M}\\ C' \to_{M}\\ C' \to_{M}\\ C' \to_{M}\\ C' \to_{M}\\ C_{i}, \Gamma, \Delta, s, F)\\ \text{endliche}\\ \textbf{particle}\\ \textbf{tielle}\\ \textbf{thech}\\ C_{1}, \cdots, C_{n}\\ C_{i} \to_{M}\\ C_{i+1} \forall i \in \\ [n-1]\\ 1 \end{bmatrix}
 Emgade w_1, \dots, w_n \in (\Sigma^*)^n n \in N start_M = C_1, \dots, C_m c_m c_m

\begin{array}{l}
\overset{\smile m}{\operatorname{start}}_{M}(w_{1},\cdots,w_{n}) = \\
\overset{\smile}{C_{1}},\overset{\smile}{C_{2}},\cdots \\
\overset{\smile}{N},\overset{\smile}{C_{2}},\overset{\smile}{C_{2}},\overset{\smile}{C_{2}}
\end{array}

   (w_1, \dots, w_n) \in (\Sigma^*)^n \\ (w_1, \dots, w_n) \in (Q, \Sigma, \Gamma, \Delta, s, F)
   ter-
miniert
(w_1, \dots, w_n) \in (\Sigma^*)^n
(w_1, \dots, w_n)
   (w_1, \cdots, w_n)
M = (Q, \Sigma, \Gamma, \Delta, s, F)
to to \uparrow
 (w_1, \cdots, w_n) \in (\Sigma^*)^n
(w_1, \cdots, w_n)
M = (Q, \Sigma, \Gamma, \Delta, s, F)
(q, w_1, \cdots, w_k, p_1, \cdots, p_k)
akzeptierend
q \in F
akzep-
  akzep-
tierte
Sprache
L(M)
```