

52. Aufgabe

Typen:

ITERATOR = MENGE

MENGE = $\{x_1, \dots, x_n\}$, $x_1, \dots, x_n \in \mathbb{Z}$, $\forall_{1 \leq i < j \leq n} : x_i \neq x_j$

Operationen:

$iterate : \text{MENGE} \rightarrow \text{ITERATOR}$

$hasnext : \text{ITERATOR} \rightarrow \text{BOOL}$

$next : \text{ITERATOR} \rightarrow \text{Int} \times \text{ITERATOR}$

Axiome:

$iterate(M) = M'$ $M' = M$

$hasnext(M) = \begin{cases} true & \text{falls } M \neq \emptyset \\ false & \text{sonst} \end{cases}$

$next(\{x_1, \dots, x_n\}) = \begin{cases} (x_1, \{x_2, \dots, x_n\}) & \text{falls } n > 0 \\ undef & \text{sonst} \end{cases}$