

ALP3

Tutor: Till Zoppke

Ji zhihai&Stefan Roszbach

Aufgabe 52

Typ:

Iterator; Menge = $\{x_1, \dots, x_n \mid x_1, \dots, x_n \in \text{Int}\}$

Ops:

iterate: Menge \rightarrow Iterator

hasnext: Iterator \rightarrow Bool

next: Iterator \rightarrow (Int, Iterator)

Axioms:

Iterate(M) = I

$I = \{x_1, \dots, x_n \mid x_1, \dots, x_n \in M\}$

$\text{Hasnext}(I) = \begin{cases} \text{falsch}, & \text{falls } I = \emptyset \\ \text{wahr}, & \text{sonst} \end{cases}$

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