

## **reduce2\_shift**<sup>4,23</sup>

$\forall A, T:\text{Type}, L:T \text{ List}, k:A, i:\mathbb{N}, f:(T \rightarrow \{i..(i+\|L\|)\}^-) \rightarrow A \rightarrow A).$   
 $\text{reduce2}(f;k;i;L) = \text{reduce2}(\lambda x,i,l. f(x,i-1,l);k;i+1;L) \in A$