

## **q-constraint-times**<sup>11,40</sup>

$\forall x: (\mathbb{N} \rightarrow \mathbb{Q}), r: \mathbb{Z}, a: \mathbb{Q}, k: \mathbb{N}, y: (\mathbb{Q} \text{ List}).$   
 $(k \leq \|y\|)$   
 $\Rightarrow ((r = 0) \vee 0 < a \vee (0 \leq a \ \& \ r = 1))$   
 $\Rightarrow \text{q-rel}(r; \text{q-linear}(k; j.x(j); y))$   
 $\Rightarrow \text{q-rel}(r; \text{q-linear}(k; j.a * (x(j)); y))$