

**select\_concat**<sup>0,22</sup>

$\forall T:\text{Type}, l:(T \text{ List}) \text{ List}, n:\mathbb{N}_{<\|\text{concat}(l)\|}.$   
 $\exists m:\mathbb{N}_{<\|l\|}.$   
 $\|\text{concat}(\text{firstn}(m;l))\| \leq n$   
&  $n - \|\text{concat}(\text{firstn}(m;l))\| < \|l[m]\|$   
&  $\text{concat}(l)[n] = l[m][n - \|\text{concat}(\text{firstn}(m;l))\|] \in T$