

search_property^{4,23}

$\forall k:\mathbb{N}, P:(\mathbb{N}_{<k} \rightarrow \mathbb{B}).$

$((\exists i:\mathbb{N}_{<k}. P(i)) \Leftrightarrow 0 < \text{search}(k;P))$

$\& (0 < \text{search}(k;P) \Rightarrow P(\text{search}(k;P)-1) \& (\forall j:\mathbb{N}_{<k}. j < \text{search}(k;P)-1 \Rightarrow \neg P(j)))$