

sum_lower_bound^{4,23}

$\forall k, b: \mathbb{N}, f: (\mathbb{N}_{<k} \rightarrow \mathbb{Z}). (\forall x: \mathbb{N}_{<k}. b \leq f(x)) \Rightarrow b \cdot k \leq \text{sum}(f(x) \mid x < k)$