

random-seq^{0,22}

random-seq($T;sz;eq;f$)
 $\equiv_{\text{def}} \forall k:\mathbb{N}, g:(\mathbb{N}_{<k} \rightarrow \mathbb{N}), x:(k:\mathbb{N} \times (\mathbb{N}_{<k} \rightarrow T)).$
increasing($g;k$) $\Rightarrow$ frequency(derived-seq($f;\langle k,g \rangle$); x) $\sim (1/\exp(sz;k))$

clarification:

random-seq($T;sz;eq;f$)
 $\equiv_{\text{def}} \forall k:\mathbb{N}, g:(\{0..k^-\} \rightarrow \mathbb{N}), x:(k:\mathbb{N} \times (\{0..k^-\} \rightarrow T)).$
increasing($g;k$) $\Rightarrow$ frequency(eq-seq(eq);derived-seq($f;\langle k,g \rangle$); $x;1;\exp(sz;k)$)