procedure SA($f : \mathbb{X} \mapsto \mathbb{R}$, T_0, ε)

randomly sample x_c from $\mathbb{X}$; $y_c \leftarrow f(x_c)$;

while $\neg$ terminate **do**

$x_n \leftarrow \texttt{move}(x_c)$; $y_n \leftarrow f(x_n)$;

$T \leftarrow T_0$;

if $\mathfrak{R}_0^1 < e^{\frac{y_c - y_n}{T}}$ **then** ▷ always true if $y_n \leq y_c$

$x_c \leftarrow x_n$; $y_c \leftarrow y_n$;