procedure SA($f : \mathbb{X} \mapsto \mathbb{R}$, T_0, ε)
    randomly sample x_c from $\mathbb{X}$; $y_c \leftarrow f(x_c)$;

    $\tau \leftarrow 0$; $\triangleright$ τ is iteration counter
    while $\neg$ terminate **do**
        $x_n \leftarrow \texttt{move}(x_c)$; $y_n \leftarrow f(x_n)$;
        $\tau \leftarrow \tau + 1$;
        $T \leftarrow T_0(1 - \varepsilon)^{\tau - 1}$; $\triangleright$ T decreases over time
        if $\mathfrak{R}_0^1 < e^{\frac{y_c - y_n}{T}}$ **then** $\triangleright$ always true if $y_n \leq y_c$
            $x_c \leftarrow x_n$; $y_c \leftarrow y_n$;