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

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

    while $\neg$ terminate **do**

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

        if $\mathfrak{R}_0^1 < e^{\textcolor{red}{y_c - y_n}}$ **then**

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