

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**

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

if $\mathfrak{R}_0^1 < e^{\mathbf{y_c - y_n}}$ **then** \triangleright always true if $y_n \leq y_c$
 $x_c \leftarrow x_n$; $y_c \leftarrow y_n$;