

function SIMULATED-ANNEALING(*problem*, *schedule*) **returns** a solution state

inputs: *problem*, a problem

schedule, a mapping from time to “temperature”

current \leftarrow MAKE-NODE(*problem*.INITIAL-STATE)

for $t = 1$ **to** ∞ **do**

$T \leftarrow$ *schedule*(t)

if $T = 0$ **then return** *current*

next \leftarrow a randomly selected successor of *current*

$\Delta E \leftarrow$ *next*.VALUE $-$ *current*.VALUE

if $\Delta E > 0$ **then** *current* \leftarrow *next*

else *current* \leftarrow *next* only with probability $e^{\Delta E/T}$