

procedure (1 + 1) FEA($f : \mathbb{X} \mapsto \mathbb{N}$)

$H \leftarrow (0, 0, \dots, 0);$

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

while \neg terminate **do**

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

$H[y_c] \leftarrow H[y_c] + 1;$ $H[y_n] \leftarrow H[y_n] + 1;$

if $y_n \leq y_c$ **then**

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

return x_c, y_c