procedure $(1 + 1)$ FEA$(f : \mathbb{X} \mapsto \mathbb{N})$
    $H \leftarrow (0, 0, \cdots, 0)$;
    randomly sample x_c from $\mathbb{X}$; $y_c \leftarrow f(x_c)$;
    $x_B \leftarrow x_c$; $y_B \leftarrow y_c$;
    while $\neg$ terminate **do**
        $x_n \leftarrow \texttt{move}(x_c)$; $y_n \leftarrow f(x_n)$;
        $H[y_c] \leftarrow H[y_c] + 1$; $H[y_n] \leftarrow H[y_n] + 1$;
        if $H[y_n] \leq H[y_c]$ **then**
            $x_c \leftarrow x_n$; $y_c \leftarrow y_n$;
            if $y_c < y_B$ **then** $x_B \leftarrow x_c$; $y_B \leftarrow y_c$;
    return x_c, y_c