
Heapify-down(H, i):

Let $n = \text{length}(H)$

If $2i > n$ then

 Terminate with H unchanged

Else if $2i < n$ then

 Let $\text{left} = 2i$, and $\text{right} = 2i + 1$

 Let j be the index that minimizes $\text{key}[H[\text{left}]]$ and $\text{key}[H[\text{right}]]$

Else if $2i = n$ then

 Let $j = 2i$

Endif

If $\text{key}[H[j]] < \text{key}[H[i]]$ then

 swap the array entries $H[i]$ and $H[j]$

 Heapify-down(H, j)

Endif
