

MAX-HEAPIFY( $A, i, n$ )

$l = \text{LEFT}(i)$

$r = \text{RIGHT}(i)$

**if**  $l \leq n$  and  $A[l] > A[i]$

$largest = l$

**else**  $largest = i$

**if**  $r \leq n$  and  $A[r] > A[largest]$

$largest = r$

**if**  $largest \neq i$

exchange  $A[i]$  with  $A[largest]$

MAX-HEAPIFY( $A, largest, n$ )