



heapify(T, n, i)

$\text{max} = i$   
 $l = 2 * i + 1$   
 $r = 2 * i + 2$

$l < n$  and  
 $T[\text{max}] < T[l]$

No

Yes

$\text{max} = l$

$r < n$  and  
 $T[\text{max}] < T[r]$

No

Yes

$\text{max} = r$

$\text{max} \neq i$

Yes

$T[i], T[\text{max}] = T[\text{max}], T[i]$   
 $\text{heapify}(T, n, \text{max})$