

Algorithm 1: Remove	
Input: Input	
Output: Output	
1	Procedure Remove(A)
2	$x \leftarrow A[0]$
3	$A[0] \leftarrow A[n - 1]$
4	$i \leftarrow 0$
5	while $2 \cdot i + 2 < n - 1$ do
6	$j \leftarrow$ if $A[2 \cdot i + 1] \leq A[2 \cdot i + 2]$ then $2 \cdot i + 1$ else $2 \cdot i + 2$
7	if $A[j] \leq A[i]$ then
8	swap $A[j]$ and $A[i]$
9	$i \leftarrow j$
10	continue
11	break
12	end
13	if $2 \cdot i + 1 < n - 1 \wedge A[2 \cdot i + 1] \leq A[i]$ then
14	swap $A[i]$ and $A[2 \cdot i + 1]$
15	return x

Algorithm 2: f	
Input: Input	
Output: Output	
1	Procedure f(A)
2	print (Remove (A))
3	return 1