

MAX-HEAP-MAXIMUM(A)

```
1  if  $A.heap\text{-}size < 1$   
2      error “heap underflow”  
3  return  $A[1]$ 
```

MAX-HEAP-EXTRACT-MAX(A)

```
1   $max = \text{MAX-HEAP-MAXIMUM}(A)$   
2   $A[1] = A[A.heap\text{-}size]$   
3   $A.heap\text{-}size = A.heap\text{-}size - 1$   
4  MAX-HEAPIFY( $A, 1$ )  
5  return  $max$ 
```