

## HEAP-EXTRACT-MAX( $A$ )

```
1  if  $A.heap\text{-}size < 1$ 
2      error “heap underflow”
3   $max = A[1]$ 
4   $A[1] = A[A.heap\text{-}size]$ 
5   $A.heap\text{-}size = A.heap\text{-}size - 1$ 
6  MAX-HEAPIFY( $A, 1$ )
7  return  $max$ 
```