```
Algorithm preorderNext(Node v):
    if visInternal() then
      return v's left child
    else
      Node p = parent of v
      if v is left child of p then
         return right child of p
      else
         while v is not left child of p do
           v = p
           p = p.parent
        return right child of p
Algorithm inorderNext(Node v):
    if isInternal(v) then
      return v's right child
    else
      Node p = parent of v
      if v is left child of p then
        return p
      else
         while v is not left child of p do
           v = p
           p=p.parent
        return p
```

The worst case running times for these algorithms are all $O(\log n)$ where n is the height of the tree T.

```
Algorithm postorderNext(Node v):
    if isInternal(v) then
      p = parent of v
      if v = \text{right child of } p \text{ then}
         return p
       else
         v = \text{right child of } p
         while v is not external do
            v = left child of v
         return v
    else
       p = parent of v
      if v is left child of p then
         return right child of p
       else
         return p
```