

**Algorithm Design**  
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**Solution of Exercise C-2.17**

**Algorithm** inorder(Tree  $T$ ):  
Stack  $S \leftarrow$  new Stack()  
Node  $v \leftarrow T.root()$   
push  $v$   
**while**  $S$  is not empty **do**  
  **while**  $v$  is internal **do**  
     $v \leftarrow v.left$   
    push  $v$   
  **while**  $S$  is not empty **do**  
    pop  $v$   
    visit  $v$   
    **if**  $v$  is internal **then**  
       $v \leftarrow v.right$   
      push  $v$   
    **while**  $v$  is internal **do**  
       $v \leftarrow v.left$   
      push  $v$