Correction to the stack-based postorder traversal of a binary tree on page 8 of the notes on trees

The algorithm for stack-based postorder traversal on page 8 of the scribed notes for COMP 251 is wrong. While we await correction by the author, here is the way to do it using a flag.

[Stack based postorder traversal of tree $t$.]

makenull ($S$) (where $S$ is a stack)
push (($t, 1$), $S$) (where $t$ is the root of the binary tree)
while $|S| > 0$ do:
   ($v, b$) ← pop ($S$)
   if $b = 1$ then push (($v, 0$), $S$)
      if right [$v$] $\neq$ nil, then push ((right[$v$], 1), $S$)
      if left [$v$] $\neq$ nil, then push ((left[$v$], 1), $S$)
   else visit ($v$)