

TREE-INSERT(x)

$y \leftarrow \text{nil}$

$x \leftarrow \text{root}[T]$

while $x \neq \text{nil}$

do $y \leftarrow x$

if $\text{key}[z] < \text{key}[x]$

then $x \leftarrow \text{left}[x]$

else $x \leftarrow \text{right}[x]$

$p[z] \leftarrow y$

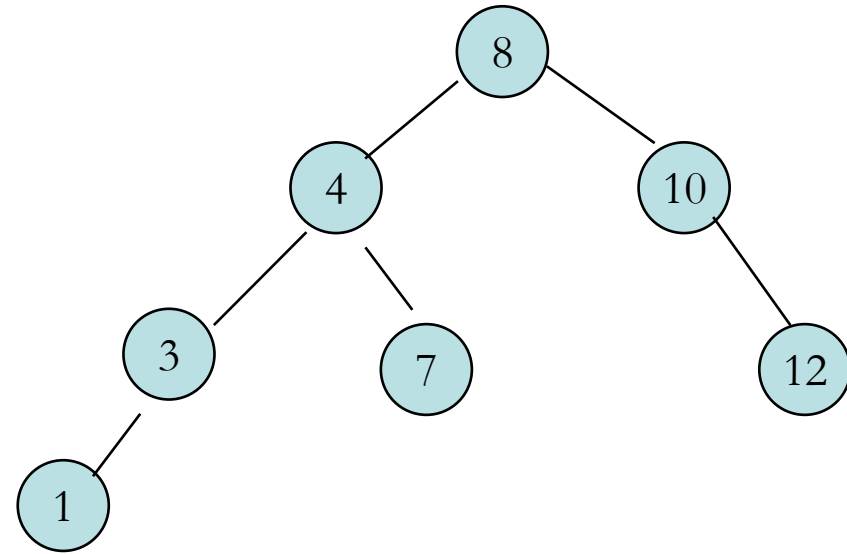
if $y = \text{nil}$

then $\text{root}[T] \leftarrow z$

else if $\text{key}[z] < \text{key}[y]$

then $\text{left}[y] \leftarrow z$

else $\text{right}[y] \leftarrow z$



Explique el código para el caso de **TREE-INSERT**(z), donde $\text{key}[z]=5$