

Inserzione in alberi binari di ricerca

TREE-INSERT(T, z)

```
1   $y = \text{NIL}$ 
2   $x = T.\text{root}$ 
3  while  $x \neq \text{NIL}$ 
4       $y = x$ 
5      if  $z.\text{key} < x.\text{key}$ 
6           $x = x.\text{left}$ 
7      else  $x = x.\text{right}$ 
8   $z.\text{parent} = y$ 
9  if  $y == \text{NIL}$ 
10      $T.\text{root} = z$ 
11 elseif  $z.\text{key} < y.\text{key}$ 
12      $y.\text{left} = z$ 
13 else  $y.\text{right} = z$ 
```

$O(h)$.