

# INTERVAL-SEARCH( $T, i$ )

```
1   $x \leftarrow \text{root}[T]$ 
2  while  $x \neq \text{nil}[T]$  and  $i$  does not overlap  $\text{int}[x]$ 
3      do if  $\text{left}[x] \neq \text{nil}[T]$  and  $\text{max}[\text{left}[x]] \geq \text{low}[i]$ 
4          then  $x \leftarrow \text{left}[x]$ 
5          else  $x \leftarrow \text{right}[x]$ 
6  return  $x$ 
```