```
B-Tree-Search(x, k)
1 i = 1
2 while i \le x . n and k > x . key_i
3
       i = i + 1
4
  if i \le x . n and k == x . key_i
5
       return (x, i)
6
   elseif x.leaf
7
        return NIL
8
   else DISK-READ(x.c_i)
9
        return B-TREE-SEARCH(x.c_i, k)
```