```
void quickSort( a[], inf, sup )
                                 (inf < sup)?
true
                                                         fálse
pivot := a [inf]
i := inf + 1
j := sup
while (i \le j)?
    while (i <= sup && a [i] <= pivot)?
        i := i + 1
    while (j \ge \inf \&\& a[j] \ge pivot)?
        j := j + 1
         (i < j && i <= sup && j >= inf)?
                                                 false
    true
                                                           Ø
    aux := a[i]
    a[i]:=a[j]
    a[j]:= aux
                                     Ø
    i := i + 1
    j := j - 1
i := i - 1
a[inf]:=a[i]
a[i]:= pivot
  quickSort (a, inf, i - 1)
  quickSort (a, i + 1, sup)
```