
Algorithm 1: Quick Sort

```
1 def quick_sort( $t, \ell, r$ ):  
2     if  $r - \ell > 1$  then  
3          $p \leftarrow \text{partition}(t, \ell, r)$   
4         quick_sort( $t, \ell, p$ )  
5         quick_sort( $t, p, r$ )  
6
```
