





Activities Text Editor Mon 18:45

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```
1 //MARSHAL GAWANDE
2 // 2020BTEIT00049
3
4 //partition function which rearranges the array such that
5 // all the smaller elements are left to pivot element
6 // and all the larger elements are right to pivot element.
7
8 partition(arr[], lo, hi)
9     pivot = arr[hi]
10    PIndex = lo    // place for swapping
11    for i := lo to hi - 1 do
12        if arr[i] <= pivot then
13            swap arr[PIndex] with arr[i]
14            PIndex = PIndex + 1
15    swap arr[PIndex] with arr[hi]
16    return PIndex
17
18 // we divide the array into two subarrays around
19 // the pivot and recursively call for them separately.
20
21 quicksort(arr[], lo, hi)
22     if lo < hi
23         PIndex = partition(arr, lo, hi)
24         quicksort(arr, lo , p-1)
25         quicksort(arr, p+1, hi)
26
27
```

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