

LAB4: QUICK SORT

Input:

```
if __name__ == '__main__':  
    array = [67, 83, 34, 56, 12, 89]  
    size= len(array)  
  
    quicksort(array, 0, size-1)
```

Output:

```
Sorted array is:  
12 34 56 67 83 89
```

Time complexity graph:

```
... Quicksortsort Sorted 1000 Elements in 0.002956399926915765 s  
Quicksortsort Sorted 2000 Elements in 0.00802589999511838 s  
Quicksortsort Sorted 3000 Elements in 0.009137199958786368 s  
Quicksortsort Sorted 4000 Elements in 0.01447209995239973 s  
Quicksortsort Sorted 5000 Elements in 0.01786939997691661 s  
Quicksortsort Sorted 6000 Elements in 0.0210670999949798 s  
Quicksortsort Sorted 7000 Elements in 0.02576660003978759 s  
Quicksortsort Sorted 8000 Elements in 0.03012860007584095 s  
Quicksortsort Sorted 9000 Elements in 0.03599649993702769 s  
Quick Sort Sorted Elements in 0.171875 s
```

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