

```
1 def quicksort(A, low, high):
2     if low < high :
3         p = partition(A, low, high)
4         quicksort(A, low, p-1)
5         quicksort(A, p+1, high)
6
7 def partition(A, low, high):
8     i = low-1
9     pivot = A[high]
10    for j in range(low, high):
11        if A[j] <= pivot:
12            i = i + 1
13            A[i], A[j] = A[j], A[i]
14
15    A[i+1], A[high] = A[high], A[i+1]
16
17    return i+1
18
19 A = [84, 21, 96, 15, 47]
20 print('Original Array: ', A)
21 quicksort(A,0,len(A)-1)
22 print('Sorted Array: ', A)
23
```