1. Для реалзізації данної задачи потрібно можна використати спеціальні “Extension” модулі.

наприклад

from distutils.core import \*

1. def partition(arr, low, high):  
    i = (low - 1)  
    pivot = arr[high]  
     
    for j in range(low, high):  
     
    if arr[j] <= pivot:  
     
    i = i + 1  
    arr[i], arr[j] = arr[j], arr[i]  
     
    arr[i + 1], arr[high] = arr[high], arr[i + 1]  
    return (i + 1)  
     
   def quickSort(arr, low, high):  
    if low < high:  
    pi = partition(arr, low, high)  
    quickSort(arr, low, pi - 1)  
    quickSort(arr, pi + 1, high)  
     
   def gnomeSort(arr, n):  
    index = 0  
    while index < n:  
    if index == 0:  
    index = index + 1  
    if arr[index] >= arr[index - 1]:  
    index = index + 1  
    else:  
    arr[index], arr[index - 1] = arr[index - 1], arr[index]  
    index = index - 1  
     
    return arr  
     
   arr = [5, 7, 18, -6, 200, -80]  
   n = len(arr)  
   quickSort(arr, 0, n - 1)  
   arr = gnomeSort(arr, n)