To use quicksort we define two functions. First one ‘partition’ function with 3 parameters (arr, low, high) intended to chose pivot and divide array into two smaller sets. Second is recursive function quick\_sort with 3 parameters (arr, low, high).

Lets look at quick\_sort function. First step is check that our arr is equal 1. If there is we end our function and return array with 1 element. Then we check if low parameter is less then high (low – first element in array, high – last element). Next we set variable index as the function ‘partition’ return value. So in the first repeat of the loop, we pass our array, starting index of the array and ending index. Index = partition(arr, low, high). Then we call quick\_sort separately for small elements and for large elements.

In partition function we takes last element as pivot. Create ‘index’ of smaller element. Next in for loop we check if current element is smaller than or equal to pivot. Increment ‘index’ index and swap current element of array with ‘index’ element. After loop we replace last element with element with index i+1. At the end we return index+1.