Question 1-c)

I am assuming array to be ﻿A = [1, 2, 3, 4, 5, 6].

Successive calls in the quick sort algorithm with left most pivot for this array will be:

﻿|quicksort [1, 2, 3, 4, 7, 6],)

| |dopart( [1, 2, 3, 4, 7, 6], 0, 5, 0)

| |qsort\_rec( [1, 2, 3, 4, 7, 6], 0, -1)

| |qsort\_rec( [1, 2, 3, 4, 7, 6], 1, 5)

| | |dopart( [1, 2, 3, 4, 7, 6], 1, 5, 1)

| | |qsort\_rec( [1, 2, 3, 4, 7, 6], 1, 0)

| | |qsort\_rec( [1, 2, 3, 4, 7, 6], 2, 5)

| | | |dopart( [1, 2, 3, 4, 7, 6], 2, 5, 2)

| | | |qsort\_rec( [1, 2, 3, 4, 7, 6], 2, 1)

| | | |qsort\_rec( [1, 2, 3, 4, 7, 6], 3, 5)

| | | | |dopart( [1, 2, 3, 4, 7, 6], 3, 5, 3)

| | | | |qsort\_rec( [1, 2, 3, 4, 7, 6], 3, 2)

| | | | |qsort\_rec( [1, 2, 3, 4, 7, 6], 4, 5)

| | | | | |dopart( [1, 2, 3, 4, 7, 6], 4, 5, 4)

| | | | | |qsort\_rec( [1, 2, 3, 4, 6, 7], 4, 4)

| | | | | |qsort\_rec( [1, 2, 3, 4, 6, 7], 6, 5)