Assignment 4 (DS)

Q1. Write a C/C++ program to implement below mentioned Searching and Sorting Techniques.
(a) Merge Sort
(b) Quick Sort
(c) Heap Sort

Q2. Write a C/C++ program to implement stack data structure using array. Implement below metioned functions.
a) push   b) pop   c) peep   d) displayStack   e)isStackFull
f) isStackEmpty

Q3. Write a C/C++ program to implement queue data structure using array. Implement below metioned functions.
a) add   b) delete c) peep   d) displayQueue   e)isQueueFull
f) isQueueEmpty

Q4. Write a C/C++ program to implement circular queue data structure using array. Implement below metioned functions.
a) add   b) delete c) peep   d) displayQueue   e)isQueueFull
f) isQueueEmpty