- 1. Write a program which implements an unbounded queue (a First-In-First-Out structure using non-sequential memory storage the linked list), aimed at storing real numbers, and a set of methods operating on this structure:
 - the default counstructor,
 - the copy-constructor (with memory allocation),
 - the assignment operator= (with memory dellocation and allocation),
 - the comparison operator==,
 - the destructor (with memory deallocation),
 - push adding a real number to the queue (with memory allocation),
 - pop removing from the queue a real number placed there as first or throwing an empty queue exception (with memory deallocation),
 - front returning the first number or throwing an empty queue exception,
 - back returning the last number or throwing an empty queue exception,
 - print printing the values which are in the queue currently in the order of placement,
 - empty informing whether the queue is empty,
 - size returning the number of items in the queue,
 - clear removing all the items from the queue (with memory deallocation).

The program should use all these methods to make the operations as follows:

- 1) create a queue containing the numbers given by the user,
- 2) print the contents of the queue,
- 3) remove two values from the queue and print them,
- 4) print the first and the last number,
- 5) print the number of values in the queue if it is nonempty, or an appropriate message otherwise,
- 6) clear the queue.