Implement the Queue interface with a class that is based on the LinkedDeque and DLinkedList classes (wrapper). See code fragments 3.23, 5.21, 5.22, and 5.23 and table 5.4 (below). Do not use the STL. Highlight your Deque and Queue classes.

|  |  |
| --- | --- |
| Queue method | Deque Implementation |
| size() | size() |
| empty() | empty() |
| front() | front() |
| enqueue() | insertBack() |
| dequeue () | eraseFront() |

Test all the member functions (size(), empty(), front(), enqueue, and dequeue) of the Queue class with the following data.

String string1 = "A man, a plan, a canal, Panama”;

String string2 = “Was it a car or a cat I saw?";

String string3 = “Sit on a potato pan, Otis";

String string4 = “No lemon, no melon";

Due February 7th