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1 *****
2 * PROGRAMMED BY : Nick Reardon
3 * CLASS       : CS1D
4 * SECTION      : MW - 2:30p
5 * Assignment #4 : Deque To Queue
6 *****

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Assignment #4 - Deque To Queue

Implement a Queue interface with a class that is based on a Deque using a wrapper. 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.

```

32 String string1 = "A man, a plan, a canal, Panamaö;
33 String string2 = ôWas it a car or a cat I saw?";
34 String string3 = ôSit on a potato pan, Otis";
35 String string4 = ôNo lemon, no melon";

```

Due February 10th

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--- Using Deque implementation ---

deque currently empty - empty() method called in printAll() to show

Printing deque:

Container is empty

Reading into deque from file using insertBack() method

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53 Printing deque:
54 A man, a plan, a canal, Panama
55 Was it a car or a cat I saw?
56 Sit on a potato pan, Otis
57 No lemon, no melon
58
59 deque - calling size method
60 Size is currently: 4
61
62 deque - Calling front() method
63 front value is currently: A man, a plan, a canal, Panama
64
65 deque - Calling eraseFront() method
66 front value is now currently: Was it a car or a cat I saw?
67
68 deque - Calling eraseFront() method
69
70 Printing deque:
71 Sit on a potato pan, Otis
72 No lemon, no melon
73
74
75 --- Using Queue wrapper of deque implementation ---
76
77 Queue currently empty - empty() method called in printAll() to show
78
79 Printing Queue:
80 Container is empty
81
82 Reading into queue from file using enqueue() method
83
84 Printing Queue:
85 A man, a plan, a canal, Panama
86 Was it a car or a cat I saw?
87 Sit on a potato pan, Otis
88 No lemon, no melon
89
90 queue - calling size method
91 Size is currently: 4
92
93 queue - Calling front() method
94 front value is currently: A man, a plan, a canal, Panama
95
96 queue - Calling dequeue() method
97 front value is now currently: Was it a car or a cat I saw?
98
99 queue - Calling dequeue() method
100
101 Printing Queue:
102 Sit on a potato pan, Otis
103 No lemon, no melon
104
```

105 Press any key to continue . . .