```
#include "cnPtrQueue.h"
#include <cassert>
using namespace std;
namespace CS3358 FA2021 A5P2
   // to be implemented (part of assignment)
   cnPtrQueue::cnPtrQueue():
        numItems(0) {}
   bool cnPtrQueue::empty()const
     return outStack.empty() && inStack.empty();
   }
   cnPtrQueue::size type cnPtrQueue::size()const
     return numItems;
   CNode* cnPtrQueue::front()
     assert(!inStack.empty() || !outStack.empty());
     if (outStack.empty())
       while (!inStack.empty())
         outStack.push(inStack.top());
         inStack.pop();
     return outStack.top();
   void cnPtrQueue::push(CNode* cnPtr)
     inStack.push(cnPtr);
     numItems++;
   }
   void cnPtrQueue::pop()
     assert(!inStack.empty() || !outStack.empty());
     if (outStack.empty())
       while (!inStack.empty())
          outStack.push( inStack.top());
          inStack.pop();
       }
     outStack.pop();
     numItems--;
```