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File List.cpp
   Class List stores Nodes (class Node) in a linked list.
   This file has the implementation for class List
   Class list is definition for a linked list, having the following operations:
   1. Initialize the list to an empty list.
   2. Free the nodes of a list.
   3. Determine whether a list is empty.
   4. Add a node with a given value into the list following
      the first node with another given value.
   5. Add a node with a given value to the front of the list.
   6. Add a node with a given value to the end of the list.
   7. Delete the first node from the list.
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   Data da criacao: Abril de 2006.
   Data da ultima alteração: 8 de outubro de 2015.
*/
#include "List.h"
List::List() {
   head = 0;
List::~List() {
  Node* cursor = head;
  while(head) {
    cursor = cursor->getNext();
    delete head;
    head = cursor;
  head = 0; // Officially empty
}
void List::insertBeforeFirst(int dat) {
  head = new Node(dat, head);
}
void List::insertAfterLast(int dat) {
  Node* p = head;
  Node* q = head;
  if (head == 0)
     head = new Node(dat, head);
  else {
     while (q != 0) {
        p = q;
        q = p->getNext();
     p->setNext(new Node(dat,0));
  }
}
int List::readFirst() {
   return head->getVal();
int List::removeFirst() {
  int retval = 0;
  if (head != 0){
```

}

}