## CSC 240 Data Structures with C++ Program 4

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Create a List data structure. The list will be capable of holding characters. This is the
class structure you will use:
class List
public:
 List();
 void makeEmpty();
 bool isFull() const;
 int getLength() const;
 char retrieveItem(char item);
 void insertItem(char item);
 void deleteItem(char item);
 void showList();
 char getNext();
private:
 int length;
 char info[100];
 int currentPos;
Use the code below for main().
main()
{ int x, i;
  char z;
  List C;
  ifstream in;
  in.open("char.txt");
  for (i = 0; i < 100; i++)
    in >> z;
    C.insertItem(z);
  cout << "Here is...the list: " << endl;</pre>
  C.showList();
  C.deleteItem('P');
  C.deleteItem('V');
  C.deleteItem('O');
  cout << endl << "Now here is the list: " << endl;
  C.showList();
  C.makeEmpty();
  cout << endl << "Now the list is empty: " << endl;
  C.showList();
```

**DUE DATE: Thursday October 7** 

in.close();

}