Write a program to read IP addresses from a file and produce a list of distinct addresses and a count of how many times each address appeared in the file. The addresses and counts are stored in a linked list. Your linked list should hold objects of type AddressItem. You should use the templated version of the linked list class we reviewed in lecture. Hint: You can add a **replace function** to the Linked List class to overwrite a node. :

#include <iostream>  
#include <string>  
#include "LinkedList.h"

using namespacestd;

class AddressItem{

public:

AddressItem ( ) {count = 0;}

friend istream & operator>>(istream & in, AddressItem & a); //inputs one ip address into a

friend ostream & operator<<(ostream & out, const AddressItem & a);  
void Tally( ); // add one to addressitem’s count  
string getAddress()const;

int getCount()const;

bool operator==(constAddressItem & addr2)const; //compare address values only

private:

string address;

int count;

};