```
#include <iostream>
using namespace std;
class List {
  struct Node {
      char elem;
      Node* next;
      Node (char elem='_', Node* next=NULL) {
            this->elem=elem;
            this->next=next;
      }
  };
 Node* 1st;
public:
 List () :lst(NULL) {}
 List (char c) {
        lst=new Node(c);
  }
 List (const char* s) {
        if (*s=='\0') {
            lst=NULL;
            return;
        }
        Node *p;
        lst= p= new Node(*s++);
        while (*s!='\0') {
            p= p->next= new Node(*s++);
        }
  }
 bool empty() const {return lst==NULL;}
    List (const List& 1) {
        if (1.empty()) {
            lst=NULL;
            return;
        }
        Node *p, *pl=l.lst;
        p= lst= new Node(pl->elem);
        pl=pl->next;
        while (pl!=NULL) {
            p->next= new Node(pl->elem);
            p=p->next;
            pl=pl->next;
        }
    }
    void clear() {
        Node *pl;
        while (lst!=NULL) {
```

```
pl=lst;
        lst=lst->next;
        delete pl;
    }
}
~List() {
    this->clear();
}
List operator+ (const List& 1) {
    Node *p,*pl;
    if(this->empty()){
           return 1;
    }
    List res(*this);
    p=res.lst;
    while(p->next!=NULL){
        p=p->next;
    }
    pl=l.lst;
    while (pl!=NULL) {
        p=p->next=new Node(pl->elem);
        pl=pl->next;
    }
    return res;
}
friend ostream& operator<< (ostream& s, const List& 1) {</pre>
    if (1.1st==NULL) {
        s<<"";
        return s;
    }
    Node *pl=1.lst;
    while (pl!=NULL) {
        s<<ple>s<<ple>s<</pre>
        pl=pl->next;
    }
    return s;
}
List& operator= (const List& 1) {
    Node *p,*pl;
    if (&l==this){
            return *this;
    }
```

```
this->clear();
        if (1.1st==NULL) {
           return *this;
        }
        p=lst= new Node(1.lst->elem);
        pl=1.lst->next;
        while (pl!=NULL) {
           p->next= new Node(pl->elem);
           p=p->next;
           pl=pl->next;
        }
        return *this;
   }
};
int main() {
   List 11,12('a'), 13("abc"), 14(11), 15(13);
   cout<<11<<' '<<12<<' '<<13<<' '<<14<<' '<<15<<endl;
   cout<<(11=14)<<' '<<(13)<<' '<<(14=13)<<endl;
   cout<<11+'a';
   cout<<11-'a';
   cout<< 'a'-11;// оставить в списке только буквы а Например было аbacaa ==> стало аааа
   cout<<'a'+11;
   return 0;
}
```