```
 1: /*
 2:  * A skeleton for the doubly linked list homework due Friday April 3
 3:  * Pay spetial attention to how it is initialized in the default constructor
 4:  * Add one member function
 5:  *  void push_back (const int& val);
 6:  * You will test this function in your driver program too
 7:  * I expect proper documentation in all your files
 8: */
 9:
10: // File: lista.h
11: // List declaration and implementation
12:
13: #ifndef LISTA_H
14: #define LISTA_H
15:
16: #include <iostream>
17: using namespace std;
18:
19: struct node {
20:   node(){};
21:   node(const int val):data(val){};
22:   int data;
23:   node* next;
24:   node* prev;
25: };
26:
27: class lista {
28: public:
29:   lista() { head = new node; head->next = head; head->prev=head;}
30:
31:   void push_front(const int& val) {
32:     node *np = new node(val);
33:     np->next = head->next;
34:     np->prev = head;
35:     head->next->prev = np;
36:     head->next = np;
37:   }
38:
39:   void push_back(const int& val) {}
40:   void display() {}
41:
42: private:
43:   node* head;
44: };
45:
46: #endif
```