```cpp
/*-----Doubly Connected Linklist------*/

#include<iostream>
using namespace std;

struct node
{
    int data;

    node *next;
    node *prev;
};

class dLinkList
{
    private:
        node *head;
        node *tail;
    public:
        dLinkList()
        {
            head = NULL;
            tail = NULL;
        }
        void addFront(int n)
        {
            node *temp = new node;
            temp -> data = n;
            temp -> prev = NULL;
            temp -> next = NULL;

            if(head == NULL)
            {
                head = tail = temp;
            }
            else
            {
                temp -> next = head;
                head -> prev = temp;
                head = temp;
            }

        }

        void addBack(int n)
        {
            node *temp = new node;
            temp -> data = n;
            temp -> prev = NULL;
            temp -> next = NULL;

            if(tail == NULL)
            {
                head = tail = temp;
            }
            else
            {
                temp -> prev = tail;
                tail -> next = temp;
                tail = temp;
            }
        }

        void showList()
        {
            node *temp = new node;
            temp = head;
            while(temp != NULL)
            {
                cout << temp -> data << " ";
                temp = temp -> next;
            }

        }
};

int main()
{
    dLinkList list1;
    list1.addFront(2);
    list1.addFront(1);
    list1.addBack(3);
    list1.addBack(4);

    list1.showList();

    return 0;
}
```