

The given code is a program to create a linked list from a sequence of n integers.

```
#include <bits/stdc++.h>
using namespace std;

/* Link list node */
class Node {
public:
    int key;
    Node* next;
};

void insert(Node** head_ref, int new_key);
void printList(Node* head);
void insertAt(int post, Node** head_ref, int new_key);
void remove(Node** head_ref, int key);
void readNNumbers(Node** head_ref);
void readNNumbers(Node** head_ref);
void processCommand(char cmd, Node** head_ref);

int main() {
    Node* head = NULL;
    readNNumbers(&head);

    char command;
    cin >> command;
    while (command != 'q'){
        processCommand(command, &head);
        cin >> command;
    }
    return 0;
}

void readNNumbers(Node** head_ref)
{
    int n, key;
    cin >> n;
    for (int i=0; i<n; i++){
        cin >> key;
        insert(head_ref, key);
    }
}

void insert(Node** head_ref, int new_key)
{
    /* allocate node */
    Node* new_node = new Node();

    /* put in the key */
    new_node->key = new_key;

    /* link the old list of the new node */
    new_node->next = (*head_ref);

    /* move the head to point to the new node */
    (*head_ref) = new_node;
}

void printList(Node* head)
{
    if (head == NULL) cout << "empty\n";

    while (head) {
        if (head->next == NULL)
            cout << "[" << head->key << "]" " << endl;
        else
            cout << "[" << head->key << "]" ";
        head = head->next;
    }
}

void processCommand(char cmd, Node** head_ref){
    if (cmd == 'i'){
        // *** Your code here!
    }
    else if (cmd == 'd'){
        // *** Your code here!
    }
}
```


Example

Input	Output
3 1 2 3 i 1 4 i 10 5 q	[4] [3] [2] [1] [4] [3] [2] [1] [5]
3 1 2 3 d 2 d 2 d 3 d 1 q	2 deleted [3] [1] 2 not existed [3] [1] 3 deleted [1] 1 deleted empty
3 1 2 3 i 1 4 i 10 5 d 3 q	[4] [3] [2] [1] [4] [3] [2] [1] [5] 3 deleted [4] [2] [1] [5]