Exercise 1:Write a c++ program to search the doubly linked list with an integer number, if it is  
found then multiply the number with 3, if it is not found then print “not found”?

void DoublyLinkedList::search(int value)

{

if (!is\_empty())

{

Node\* temp = head;

Node\*q;

while (temp)

{

if (temp->data == value)

{

q= temp->data \* 3;

return q;

}

temp = temp->next;

}

}

else

{

cout << "not found " << endl;

}

}

write and test a method public void reverse() to reverse the order of the nodes in the  
doubly linked list. E.g. if the list a->b->c->d the call of the method reverse() will  
rearrange the list as d->c->b->a.

DoublyLinkedListNode\* reverse(DoublyLinkedListNode\* head) {

auto temp = head;

while(head != nullptr)

{

temp = head->next;

head->next = head->prev;

head->prev = temp;

if(temp==nullptr) return head;

head=temp;

}

return head;

}