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*\* C++ Program to Implement Queue using Linked List*

*\*/*

#include<iostream>

#include<stdio.h>

#include<conio.h>

using namespace std;

struct node

{

int data;

node \*next;

}\*front = NULL,\*rear = NULL,\*p = NULL,\*np = NULL;

void push(int x)

{

np = new node;

np->data = x;

np->next = NULL;

if(front == NULL)

{

front = rear = np;

rear->next = NULL;

}

else

{

rear->next = np;

rear = np;

rear->next = NULL;

}

}

int remove()

{

int x;

if(front == NULL)

{

cout<<"empty queue**\n**";

}

else

{

p = front;

x = p->data;

front = front->next;

delete(p);

return(x);

}

}

int main()

{

int n,c = 0,x;

cout<<"Enter the number of values to be pushed into queue**\n**";

cin>>n;

while (c < n)

{

cout<<"Enter the value to be entered into queue**\n**";

cin>>x;

push(x);

c++;

}

cout<<"**\n\n**Removed Values**\n\n**";

while(true)

{

if (front != NULL)

cout<<remove()<<endl;

else

break;

}

getch();

}

Output

Enter the number of values to be pushed into queue

6

Enter the value to be entered into queue

5

Enter the value to be entered into queue

4

Enter the value to be entered into queue

3

Enter the value to be entered into queue

2

Enter the value to be entered into queue

1

Enter the value to be entered into queue

0

Removed Values

5

4

3

2

1

0