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﻿#include<iostream>

#include<time.h>

using namespace std;

struct Node

{

long int data;

string name;

string t;

struct Node \*next;

};

struct Node\*front=NULL;

struct Node \*rear=NULL;

void enqueue(string y,stringw,long int x)

{

struct Node \*temp;

temp=new Node;

if(temp==NULL)

cout<<"Queue is FUll\n";

else

{

temp->data=x;

temp->name=y;

temp->t=w;

temp->next=NULL;

if(front==NULL)

front=rear=temp;

else

{

rear->next=temp;

rear=temp;

}

}

}

void dequeue()

{

int x=-1;

struct Node\* temp;

if(front==NULL)

cout<<"NO Call Log";

else

{

temp=front;

front=front->next;

free(temp);

}

}

void display(Node \*temp)

{

if (temp == NULL)

return;

display(temp->next);

cout<<temp->name<<" "<<temp->data<<" "<<temp->t<<endl;

cout<<endl;

}

int main()

{

int n,count =0;

string x,w;

long int y;

time\_t now = time(0);

do

{ cout<<"enter 1 for input"<<endl<<"enter 2 for output"<<endl<<"Enter 0 to exit"<<endl;

cin>>n;

switch(n)

{ case 1:

cout<<"Enter Name: ";

cin>>x;

cout<<"Enter Phone NUmber :";

cin>>y;

w = ctime(&now);

enqueue(x,w,y);

count++;

break;

case 2:

if(count >=11)

dequeue();

display(front);

break;

}

}while(n!=0);

}