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 1: /*
 2:  * C++ Program to Implement Queue using Linked List
 3:  */
 4: #include<iostream>
 5: #include<stdio.h>
 6: #include<conio.h>
 7: using namespace std;
 8: struct node
 9: {
10:     int data;
11:     node *next;
12: }*front = NULL,*rear = NULL,*p = NULL,*np = NULL;
13: void push(int x)
14: {
15:     np = new node;
16:     np->data = x;
17:     np->next = NULL;
18:     if(front == NULL)
19:     {
20:         front = rear = np;
21:         rear->next = NULL;
22:     }
23:     else
24:     {
25:         rear->next = np;
26:         rear = np;
27:         rear->next = NULL;
28:     }
29: }
30: int remove()
31: {
32:     int x;
33:     if(front == NULL)
34:     {
35:         cout<<"empty queue\n";
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36:     }
37:     else
38:     {
39:         p = front;
40:         x = p->data;
41:         front = front->next;
42:         delete(p);
43:         return(x);
44:     }
45:}
46:int main()
47:{
48:     int n,c = 0,x;
49:     cout<<"Enter the number of values to be pushed into queue\n
50:     cin>>n;
51:     while (c < n)
52:     {
53:     cout<<"Enter the value to be entered into queue\n";
54:     cin>>x;
55:         push(x);
56:         c++;
57:      }
58:      cout<<"\n\nRemoved Values\n\n";
59:      while(true)
60:      {
61:         if (front != NULL)
62:             cout<<remove()<<endl;
63:         else
64:             break;
65:      }
66:      getch();
67:}
```