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//022

//EXP-8 IMPLEMENT QUEUE USING LINKED LIST

#include<stdio.h>

#include<conio.h>

#include<malloc.h>

struct node

{

int data;

struct node \*next;

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

void add(int item)

{

struct node \*temp;

temp=(struct node \*)malloc(sizeof(struct node));

temp->data=item;

if(front==NULL)

{

front=temp;

rear=temp;

temp->next=NULL;

return;

}

temp->next=NULL;

rear->next=temp;

rear=temp;

}

void deletion()

{

struct node \*temp=front;

printf("\n");

printf("%d was deleted",temp->data);

front=front->next;

free(temp);

}

void display()

{

struct node \*temp=front;

printf("\n");

printf("QUEUE IS:\n");

while(temp->next!=NULL)

{

printf("%d ",temp->data);

temp=temp->next;

}

printf("%d",temp->data);

}

void main()

{

int i;

clrscr();

for(i=1;i<=5;i++)

{

add(i);

}

display();

deletion();

display();

add(15);

display();

getch();

}

/\*

QUEUE IS:

1 2 3 4 5

1 was deleted

QUEUE IS:

2 3 4 5

QUEUE IS:

2 3 4 5 15

\*/