

#include <stdio.h>

#include <stdlib.h>

#define SIZE N

int queue[N];

int front = -1;

int rear = -1;

void enqueue(int x)

{

if ((rear + 1) % N == front)

printf("Queue is full");

else if (front == -1 && rear == -1)

{

front = rear = 0;

queue[rear] = x

}

else

{

rear = (rear + 1) % N;

queue[rear] = x;

}

}

void dequeue()

{

if (front == -1 && rear == -1)

printf("Queue is empty");

else if (front == rear)

front = rear = -1;

else

{

printf("%d", queue[front]);

front = ((front + 1) % N);

}

}

void display()

{

if (front == -1 & rear == -1)

printf("Queue is empty");

~~else if (front == rear)~~

{

int i;

while (i != rear)

{

printf("%d", queue[i]);

i = (i + 1) % N

}

printf("%d", queue[rear]);

}

}

void peek()

{

~~printf("%d", queue[front]);~~

}

void main()

{

int n;

int x;



do

{

printf("Enter your choice ");

scanf("%d", &choice);

printf("Press 1: Enqueue 2: Dequeue 3: Peek 4: Display");

switch (ch)

{

case 1: printf("Enter n");

scanf("%d", &n);

enqueue(~~push~~(n))

break;

case 2: dequeue();

break;

case 3: peek();

break;

case 4: display();

break;

default: printf("Invalid choice");

}

while (ch != 0)

}

→ Output

Prms 1: Enqueue 2: Dequeue 3: peek 4: Display  
Enter your choice: 1  
Enter the x: 23

Prms 1: Enqueue 2: Dequeue 3: peek 4: Display  
Enter your choice: 1  
Enter x: 48

Prms 1: Enqueue 2: Dequeue 3: peek 4: Display  
Enter your choice: 1  
Enter x: 23

Prms 1: Enqueue 2: Dequeue 3: peek 4: Display  
Enter your choice: 2  
~~Exit~~

Prms 1: Enqueue 2: Dequeue 3: peek 4: Display  
Enter your choice: 4  
~~48, 23~~

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