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// Experiment 4: Implement Queue using an Array: Customer Service Queue Management
System
// WAP to develop a simple customer service queue management system for a retail store.
The system should manage
// customers waiting in line to be served. You need to implement this functionality using both
an array.
// Requirements:
// 1.
// Queue Operations: Implement the following operations:
// Enqueue: Add a customer to the end of the queue when they arrive.
// Dequeue: Remove the customer at the front of the queue when they are served.
// Peek: View the customer at the front of the gueue without removing them.
// Display: Show all customers currently in the queue.
// 2.
// Input Validation: Ensure the user can't dequeue from an empty queue or enqueue into a
full queue.
#include<stdio.h>
#include<stdlib.h>
int front = -1;
int rear = -1;
int queue[10];
int size = sizeof(queue)/sizeof(queue[0]);
int addKaro(int data_){
  if((rear+1)%size==front){
     printf("Not Add any customer!");
  if(front==-1 && rear==-1){
    front = 0;
     rear = 0:
     queue[rear]=data_;
     printf("ADD Successfully!");
  }
  else{
     rear = (rear+1)%size;
     queue[rear] = data_;
     printf("ADD Successfully!");
  }
}
int hatado(){
  if(rear = -1 \&\& front == -1)
     printf("Queue is empty");
  }
  int ele;
```

if(front == rear){

ele = queue[front];

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front = -1;
     rear = -1;
     printf("Customer deleted ID : %d\n",ele);
     return ele;
  }
  else{
     ele = queue[front];
     printf("Customer deleted ID : %d\n",ele);
     front = (front+1)%size;
     return ele;
  }
}
void dikhao(){
  int i = front;
  while(i!=rear){
     printf("%d. Customer : %d\n",i+1,queue[i]);
     i = (i+1)\%size;
  }
  printf("%d. Customer : %d\n",i+1,queue[rear]);
  printf("\n");
}
int main(){
  int choice;
  printf("***************************);
  printf("\n");
  printf("1. ADD A CUSTOMER\n");
  printf("2. DELETE A CUSTOMER\n");
  printf("3. SHOW ALL CUSTOMERS\n");
  printf("4. EXIT\n");
  int id;
   while (1) {
     int choice;
     printf("\nEnter your choice: ");
     scanf("%d", &choice);
     switch(choice){
       case 1:
          printf("Enter Customer Id: ");
          scanf("%d",&id);
          addKaro(id);
          break;
```

}