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INPUT:
#include<iostream>
#define size 5
using namespace std;
int front=-1;
int rear=-1;
string cq[size];
void Enqueue(string m)
               if(front==-1)
               { front=0;
               rear=(rear+1)%size;
               cq[rear]=m;
               cout<<"\nOrder taken succesfully!";
               else
               rear=(rear+1)%size;
               cq[rear]=m;
               cout<<"\nOrder taken succesfully!";
               }
}
string Dequeue()
       if(front==-1)
       {
               cout<<"\nNo orders in queue";
               return("Fail");
       }
       else
       {
               string temp=cq[front];
               if(front==rear)
                       front=rear=-1;
               else
                       front=(front+1)%size;
               return temp;
       }
}
void display()
       if(front==-1)
               cout<<"\nNo orders in queue";
       }
       else
               cout<<"\nPending Orders:";</pre>
               int i=front;
               while(i!=rear)
               {
```

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cout<<"\n\t"<<cq[i];
                 i=(i+1)%size;
              cout<<"\n\t"<<cq[i];
       }
}
int main()
{
       int ch;
       string t;
       while(true)
       cout<<"\n\n-----";
       cout<<"\n\t1. Order a Pizza";
       cout<<"\n\t2. Display Pending orders";
       cout<<"\n\t3. Pay & Deliver Pizza";
       cout<<"\n\t4. Exit";
       cout<<"\nEnter your choice: ";
       cin>>ch;
       switch(ch)
       {
              case 1: if(((rear==size-1)&&(front==0)) || (front==(rear+1)%size))
                                           cout<<"\nSorry!\nMaximum orders reached";</pre>
                                    else
                                    {
                                           cout<<"\nPizza menu";
                                           cout<<"\n\tA. Paneer Pizza";
                                           cout<<"\n\tB. Cheese Pizza";
                                           cout<<"\n\tC. Pineapple Pizza";
                                       cout<<"\n\tD. Peri Peri Pizza";
                                       cout<<"\n\tE. Farm Pizza";
                                           cout<<"\nEnter the index char of pizza to order:
                                           cin>>t;
                                           Enqueue(t);
                                    break;
              case 2: display();
                                     break;
              case 3: t=Dequeue();
                                if(t!="Fail")
                                    cout<<"Pizza "<<t<" was delivered!";
                                break;
         case 4: return 0;
         default: cout<<"\nWrong Choice, Try again....";
                              break;
       }
}
OUTPUT:
 -----Menu-----
     1. Order a Pizza
```

2. Display Pending orders

Ente	3. Pay & Deliver Pizza 4. Exit er your choice: 1
	ta menu A. Paneer Pizza B. Cheese Pizza C. Pineapple Pizza D. Peri Peri Pizza E. Farm Pizza er the index char of pizza to order: A
Ord	er taken succesfully!
Ente	Menu 1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit er your choice: 1
	za menu A. Paneer Pizza B. Cheese Pizza C. Pineapple Pizza D. Peri Peri Pizza E. Farm Pizza er the index char of pizza to order: B
Ord	er taken succesfully!
Ente	1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit
	za menu A. Paneer Pizza B. Cheese Pizza C. Pineapple Pizza D. Peri Peri Pizza E. Farm Pizza er the index char of pizza to order: C
Ord	er taken succesfully!
	1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit er your choice: 3 ta A was delivered!

Menu
 Order a Pizza Display Pending orders Pay & Deliver Pizza Exit
Enter your choice: 2
Pending Orders: B C
Menu 1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit Enter your choice: 1
Pizza menu A. Paneer Pizza B. Cheese Pizza C. Pineapple Pizza D. Peri Peri Pizza E. Farm Pizza
Enter the index char of pizza to order: A
Order taken succesfully!
1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit Enter your choice: 3
Pizza B was delivered!
Menu 1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit Enter your choice: 2
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Pending Orders: C A
Menu 1. Order a Pizza 2. Display Pending orders 3. Pay & Deliver Pizza 4. Exit Enter your choice: 4 [Program finished]