```
#include<iostream>
#include<cstdlib>
using namespace std;
class pizza
{
int front,rear,q[5];
public:
pizza()
front=-1;
rear=-1;
}
int isfull()
if((front==0&&rear==4)||front==rear+1)
return 1;
else
return 0;
int isempty()
if(front==-1&&rear==-1)
return 1;
}
else
return 0;
void add()
if(isfull()==0)
cout<<"\n Enter the Pizza ID: ";
if(front==-1&&rear==-1)
{
front=0;
rear=0;
cin>>q[rear];
```

```
else
rear=(rear+1)%5;
cin>>q[rear];
char c;
cout<<" Do you want to add another order? ";
cin>>c;
if(c=='y'||c=='Y')
add();
}
else
cout<<"\n Orders are full ";
void serve()
if(isempty()==0)
if(front==rear)
cout<<"\n Order served is : "<<q[front];</pre>
front=-1;
rear=-1;
}
else
cout<<"\n Order served is : "<<q[front];</pre>
front=(front+1)%5;
}
else
cout<<"\n Orders are empty ";
void display()
if(isempty()==0)
for(int
```

```
i=front;i!=rear;i=(i+1)%5)
{
cout<<q[i]<<"<- ";
cout<<q[rear];
else
cout<<"\n Orders are empty";
}
void check()
int ch;
cout<<"\n\n * * * * PIZZA PARLOUR * * * * \n\n";
cout<<"\n 1. Add a Pizza \n 2. Display the Orders \n 3. Serve a pizza \n 4. Exit \n Enter your
choice: ";
cin>>ch;
switch(ch)
case 1:
add();
break;
case 2:
display();
break;
case 3:
serve();
break;
case 4:
exit(0);
default:
cout<<"Invalid choice ";
check();
}
char ch1;
cout<<"\n Do you want to continue? ";
cin>>ch1;
if(ch1=='y'||ch1=='Y')
check();
}
};
int main()
```

```
{
pizza p1;
p1.check();
return 0;
}
```