

```

#include<iostream>

using namespace std;

class queue{
    int max,*que, *front,*rear,*temp;

public:
    queue() {
        max=6;
        que=new int[max];
        front=rear=temp=NULL;
    }

    void enqueue() {

        if(rear==NULL) {
            rear=que;
            cin>>*rear;
            front=rear;
            return;
        }

        if(((rear+1)==front) || (front==que && rear==que+max-1))

            cout<<"Queue Overflow"<<endl;
            return;

        }

        if(rear==que+max-1) {
            rear=que;
        }
        else
            rear++;

        cin>>*rear;
        return;
    }

    void dequeue() {

        if(front==NULL) {
            cout<<"Queue Underflow"<<endl;

        }

        else if(front==rear) {
            front=rear=NULL;
        }

        else if(front==que+max-1) {

```

```

        front=que;
    }

    else{
        front++;
    }

}

void print(){
    if(front==NULL){
        cout<<"Queue is empty"<<endl;
        return;
    }
    while(front!=NULL){

        cout<<"\n"<<*front<<endl;
        dequeue();
    }

}

```

```
};
```

```

void main(){

    queue obj;
    for(int i=0;i<6;i++){
        obj.enqueue();
    }

    obj.print();

    for(int i=0;i<4;i++){
        obj.dequeue();
    }

    obj.print();

    for(int i=0;i<3;i++){
        obj.enqueue();
    }
    obj.print();
    system("pause");
}

```