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package datastructure;

public class QueueArray {
    public static final int DEFAULT_SIZE = 5;
    private Object data[];
    private int rear;

    public QueueArray() {
        data = new Object[DEFAULT_SIZE];
    }

    public boolean isEmpty() {
        return rear == 0;
    }

    public void enqueue(Object element) throws Exception {
        if (rear == DEFAULT_SIZE - 1) {
            System.out.println("Queue is full. Dequeue some objects");
        }
        this.data[rear] = element;
        this.rear++;
    }

    public Object dequeue() { // 2  3
        if (isEmpty())
            System.out.println(("Queue is empty"));
        Object obj = this.data[0];
        for (int i = 0; i < this.rear - 1; i++) {
            data[i] = data[i + 1];
        }
        this.rear--;
        return obj;
```

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    }

    public void printStackElements() {
        System.out.print("Elements are in Stack ::: ");
        for (int i = 0; i < data.length - 1; i++) {
            System.out.print(data[i]);
        }
        System.out.println();
    }

    public static void main(String[] args) throws Exception {
        QueueArray queue = new QueueArray();
        queue.enqueue("1");
        queue.enqueue("2");
        queue.enqueue("3");
        System.out.println(queue.dequeue());
        queue.enqueue("5");
        queue.enqueue("6");
        queue.printStackElements();
    }

}
```