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/*--- Queue.java ---*/
public class Queue {

    private String[] elements = new String[1024];
    private int head = 0;
    private int tail = -1;

    public void enqueue(String s) {
        this.tail++;
        this.elements[tail] = s;
    }

    public String dequeue() {
        if (this.head > this.tail) return null;
        return this.elements[head++];
    }

    public boolean empty() {
        return head > tail;
    }

    public Iter iterator() {
        return new Iter(elements, head);
    }

    protected class Iter {
        private String[] elements;
        private int curr;
        public Iter(String[] elements, int start) {
            this.elements = elements;
            curr = start;
        }

        public boolean hasNext() {
            return this.elements[curr] != null;
        }

        public String next() {
            String s = this.elements[curr];

            curr++;
            return s;
        }
    }
}
```