

```
/*--- Queue.java ---*/
public class Queue {
    public void enqueue(String s) {
        if (all[head] == null) {
            head = tail = 0;
            all[head] = s;
        } else {
            tail++;
            all[tail] = s;
        }
    }

    public String dequeue() {
        String s = all[head];
        if (all[head] == null) {
            tail = head;
        }
        all[head] = null;
        head++;
        return s;
    }

    public boolean empty() {
        return all[head] == null;
    }

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

    protected class Iter {
        private int curr;
        public Iter(int start) {
            curr = start;
        }

        public boolean hasNext() {
            return all[curr] != null;
        }

        public String next() {
            String s = all[curr];

            curr++;
            return s;
        }
    }

    private String[] all = new String[1024];
    private int head, tail;
}
```