```java
import components.queue.Queue;
import components.queue.Queue1L;
import components.simplewriter.SimpleWriter;
import components.simplewriter.SimpleWriter1L;

public class HW8_2231 {

    public static void main(String[] args) {
        SimpleWriter out = new SimpleWriter1L();

        Queue<String> q = new Queue1L<>();

        q.enqueue("ab");
        q.enqueue("ac");
        q.enqueue("aa");
        q.enqueue("bc");

        String a = "aa";
        out.println(q);
        moveToFront(q, a);

        out.println(q);

    }

    /**
     * Finds {@code x} in {@code q} and, if such exists, moves it to the front
     * of {@code q}.
     *
     * @param <T>
     *            type of {@code Queue} entries
     * @param q
     *            the {@code Queue} to be searched
     * @param x
     *            the entry to be searched for
     * @updates q
     * @ensures <pre>
     * perms(q, #q)  and
     * if <x> is substring of q
     *  then <x> is prefix of q
     * </pre>
     */
    private static <T> void moveToFront(Queue<T> q, T x) {
        Queue<T> temp = new Queue1L<>();
        int leng = q.length();
        T e = (T) "0";

        for (int i = 0; i < leng; i++) {
            T a = q.dequeue();
            if (a.equals(x)) {
                e = a;
            } else {
                temp.enqueue(a);
            }
        }

        Queue<T> result = new Queue1L<>();
        result.enqueue(e);
        result.append(temp);
```

```
60          q.transferFrom(result);
61
62      }
63
64  }
65
```