

```

import components.stack.Stack;
import components.stack.Stack1L;

/**
 * Model class.
 *
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 */
public final class AppendUndoModel1 implements AppendUndoModel {

    /**
     * Model variables.
     */
    private String input;

    /**
     * Model stack.
     */

    private Stack<String> output = new Stack1L<>();

    /**
     * Default constructor.
     */
    public AppendUndoModel1() {
        /**
         * Initialize model; both variables start as empty strings
         */
        this.input = "";
        this.output.push("");
    }

    @Override
    public void setInput(String input) {
        this.input = input;
    }

    @Override
    public String input() {
        return this.input;
    }

    @Override
    public Stack<String> output() {
        return this.output;
    }

}

```