

```
// Last In First Out
public class Stack {

    // INSTANCE VARIABLES
    private Node top;
    private int size;

    // CONSTRUCTORS
    public Stack() {
        this.top = null;
    }

    // PUBLIC METHODS
    public boolean push(String content) {
        boolean pushed = false;
        if (this.size == 0) {
            this.top = new Node(content);
            this.size++;
            pushed = true;
        }
        else {
            this.top = new Node(content, this.top);
            this.size++;
            pushed = true;
        }
        return pushed;
    }
    public boolean pop() {
        boolean popped = false;
        if (this.size > 0) {
            this.top = this.top.getNext();
            this.size--;
            popped = true;
        }
        return popped;
    }
    public boolean isEmpty() {
        boolean is_empty = true;
        if (this.size > 0) {
            is_empty = false;
        }
        return is_empty;
    }
}
```

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}  
public int size() {  
    return this.size;  
}  
public String peek() {  
    return (this.top != null) ? this.top.toString() : "[stack is empty]";  
}  
}
```