```
1   public class Stack
2   {
3     protected int[] contents;
4     protected int top = 0;
5     public Stack(int maxSize) {contents = new int[maxSize];}
6     public int size() {return top;}
7     public boolean isEmpty() {return top == 0;}
8     public int top() {return contents[top-1];}
9     public void pop() {top--;}
10    public void push(int value) {contents[top++] = value;}
11  }
12
```