import java.util.Scanner;

interface StackADT {

void push(String item);

String pop();

boolean isEmpty();

}

class TextEditorStack implements StackADT {

private String[] stack = new String[10];

private int top = -1;

public void push(String item) {

if (top < stack.length - 1) stack[++top] = item;

}

public String pop() {

return !isEmpty() ? stack[top--] : null;

}

public boolean isEmpty() {

return top == -1;

}

}

public class TextEditor{

private String text = "";

private TextEditorStack stack = new TextEditorStack();

private Scanner scanner = new Scanner(System.in);

public void run() {

while (true) {

System.out.println("\n1. Insert Text");

System.out.println("2. Undo");

System.out.println("3. Display Text");

System.out.println("4. Exit");

System.out.print("Choose an option: ");

int choice = scanner.nextInt();

scanner.nextLine();

switch (choice) {

case 1:

System.out.print("Enter text: ");

insertText(scanner.nextLine());

break;

case 2:

undo();

break;

case 3:

System.out.println("Text: " + text);

break;

case 4:

System.exit(0);

default:

System.out.println("Invalid choice");

}

}

}

