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// Filename Fread_Stack.java
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// Written on 3/19/19
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public class Main {

    public static void main(String[] args) {

        Stack nums = new Stack(10);

        nums.push("1");
        nums.push("2");
        nums.push("3");
        nums.push("4");
        nums.show();

        nums.pop();
        nums.show();

        nums.pushMany("4 5 6 7 8 9");
        nums.show();

    }

}
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public class Stack {

    private String stackArray[];
    private int stackSize;
    private int topOfStack;

    public Stack(int size) {
        stackSize = size;
        stackArray = new String[size];
    }

    public void push(String item) {
        if(topOfStack + 1 < stackSize) {
            topOfStack++;
            stackArray[topOfStack] = item;
        }
        else {
            System.out.println("Sorry, stack is full");
        }
    }

    public void pushMany(String multipleValues) {
        String[] temp = multipleValues.split(" ");
        for(int i = 0; i < temp.length; i++) {
            push(temp[i]);
        }
    }

    public String pop() {
        if(topOfStack >= 0) {
            stackArray[topOfStack] = "-1";
            return stackArray[topOfStack--];
        }
        else {
            System.out.println("Sorry, the stack is empty");
            return "-1";
        }
    }

    public void show() {
        int temp = topOfStack;
        while(temp >= 0) {
            System.out.print(stackArray[temp] + " ");
            temp--;
        }
        System.out.println();
    }

}
```