DAY 13

/\*

import java.util.Scanner;

class StringProblems {

public static void main(String[] args) {

String s = new String();

int freq[] = new int[26];

int ctr = 0, i, flag = 0;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the string: ");

s = sc.nextLine();

s = s.toLowerCase();

// for(i = 0; i < s.length(); i++) {

// System.out.println(s.charAt(i));

// }

char[] arr = s.toCharArray();

for(i = 0; i < arr.length; i++) {

if(Character.isAlphabetic(arr[i])) {

freq[arr[i] - 97]++;

}

}

System.out.println("Frequency of characters are:");

for(i = 0; i < freq.length; i++) {

if(freq[i] != 0) {

System.out.println((char)(97 + i) + " : " + freq[i]);

}

}

for(i = 0; i < freq.length; i++) {

if(freq[i] == 1) {

ctr++;

}

}

System.out.println("Number of unique characters: " + ctr);

//Pangram

for(i = 0; i < freq.length; i++) {

if(freq[i] == 0) {

flag = 1;

break;

}

}

if(flag == 0)

System.out.println("Pangram");

else

System.out.println("Not a Pangram");

}

}

\*/

import java.util.Scanner;

class StackOperations {

static int stack[], size, top;

static void push(int x) {

if(top == size - 1) {

System.out.println("Stack Overflow");

return;

}

stack[++top] = x;

}

static void pop() {

if(top == -1) {

System.out.println("No item to delete");

return;

}

System.out.println("Deleted Item: " + stack[top]);

top--;

}

/\*

static int peak() {

if(top == -1) {

return -1;

}

return stack[top];

}

\*/

static void display() {

if(top == -1) {

System.out.println("Stack Underflow");

return;

}

System.out.println("Stack elements are:");

for(int i = top; i >= 0; i--) {

System.out.println(stack[i]);

}

}

public static void main(String[] args) {

// int val;

Scanner sc = new Scanner(System.in);

System.out.print("Enter Stack size: ");

size = sc.nextInt();

stack = new int[size];

top = -1;

push(10);

display();

push(20);

display();

push(30);

display();

push(40);

display();

push(50);

display();

pop();

pop();

display();

/\*

val = peak();

if(val == -1)

System.out.println("No items found");

else

System.out.println("Top element: " + val);

\*/

}

}