class Stack{

int[] ele;

int top;

void initStack(int size){

ele=new int[size];

top=-1;

}

void initStack(Stack another){

ele=new int[another.ele.length];

top=-1;

for(int item:another.ele)

push(item);

}

void initStack(int[] a){

ele=new int[a.length];

top=-1;

for(int item:a)

push(item);

}

void push(int item){

if(top<ele.length){

ele[++top]=item;

System.out.println("Pushed element is "+item);

}

else

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

}

int pop(){

if(top==-1){

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

return -1;

}

else{

int item=ele[top--];

return item;

}

}

int peek(){

return ele[top];

}

}

public class TW5a {

public static void main(String[] args) {

Stack s1=new Stack();

Stack s2=new Stack();

s1.initStack(5);

s1.push(10);

s1.push(20);

s1.push(30);

s1.push(40);

s1.push(50);

s2.initStack(s1);

int[] array={1,2,3,4};

Stack s3=new Stack();

s3.initStack(array);

System.out.println("Popped element in S1 object is "+s1.pop());

System.out.println("Element on top of the stack of object s1 is "+s1.peek());

System.out.println("Element on top of the stack of object s2 is "+s2.peek());

}

}