import java.util.Stack;  
  
  
public class Transfer {  
  
 public static Stack<Integer> stackPush(Stack<Integer> stack){  
  
 for(int i = 0; i < 5; i++){  
  
 Integer push = (Integer) stack.push(i);  
  
 System.*out*.println(push);  
 }  
 return stack;  
  
 }  
  
 public static void pop(Stack<Integer> stack){  
  
 for(int i = 0; i < 5; i++){  
  
 Integer pop = (Integer) stack.pop();  
 System.*out*.println(pop);  
  
  
 }  
  
 }  
  
  
 public static void peek(Stack<Integer> stack){  
  
 Integer peek = (Integer) stack.peek();  
  
 System.*out*.println("Top of the element is: " + peek);  
  
 }  
  
  
 public static void search(Stack<Integer> stack, int element){  
  
 System.*out*.println("Element searched is: ");  
  
 Integer search = (Integer) stack.search(element);  
  
 if(element == -1){  
  
 System.*out*.println("Stack is empty.");  
 }  
 else{  
 System.*out*.println("Element is: " + search);  
 }  
  
  
 }  
  
 public static Stack<Integer> transfer(Stack<Integer> stack1, Stack<Integer> stack2){  
  
  
 stack2 = *stackPush*(stack1);  
  
 System.*out*.println("Stack transfered successfully: "+ stack2);  
  
 return stack2;  
  
 }  
  
 public static void main(String[] args) {  
  
 Stack<Integer> stack1 = new Stack<>();  
 Stack<Integer> stack2 = new Stack<>();  
  
 Stack<Integer> finalStack = *transfer*(stack1, stack2);  
  
  
  
 }  
  
  
  
}