Write a program in Java to insert and remove elements in a stack

Program:

import java.util.Stack;

class Stack{

// Function to insert an element

// at the bottom of a given stack

static void insertToBottom(Stack<Integer> S, int N)

{

// Temporary stack

Stack<Integer> temp = new Stack<>();

// Iterate until S becomes empty

while (!S.empty())

{

// Push the top element of S

// into the stack temp

temp.push(S.peek());

// Pop the top element of S

S.pop();

}

// Push N into the stack S

S.push(N);

// Iterate until temp becomes empty

while (!temp.empty())

{

// Push the top element of

// temp into the stack S

S.push(temp.peek());

// Pop the top element of temp

temp.pop();

}

// Print the elements of S

while (!S.empty())

{

System.out.print(S.peek() + " ");

S.pop();

}

}

// Driver code

public static void main(String[] args)

{

// Given Binary Tree

Stack<Integer> S = new Stack<>();

S.push(5);

S.push(4);

S.push(3);

S.push(2);

S.push(1);

int N = 7;

insertToBottom(S, N);

}

}

Output:

7 9 4 3 6 2 5