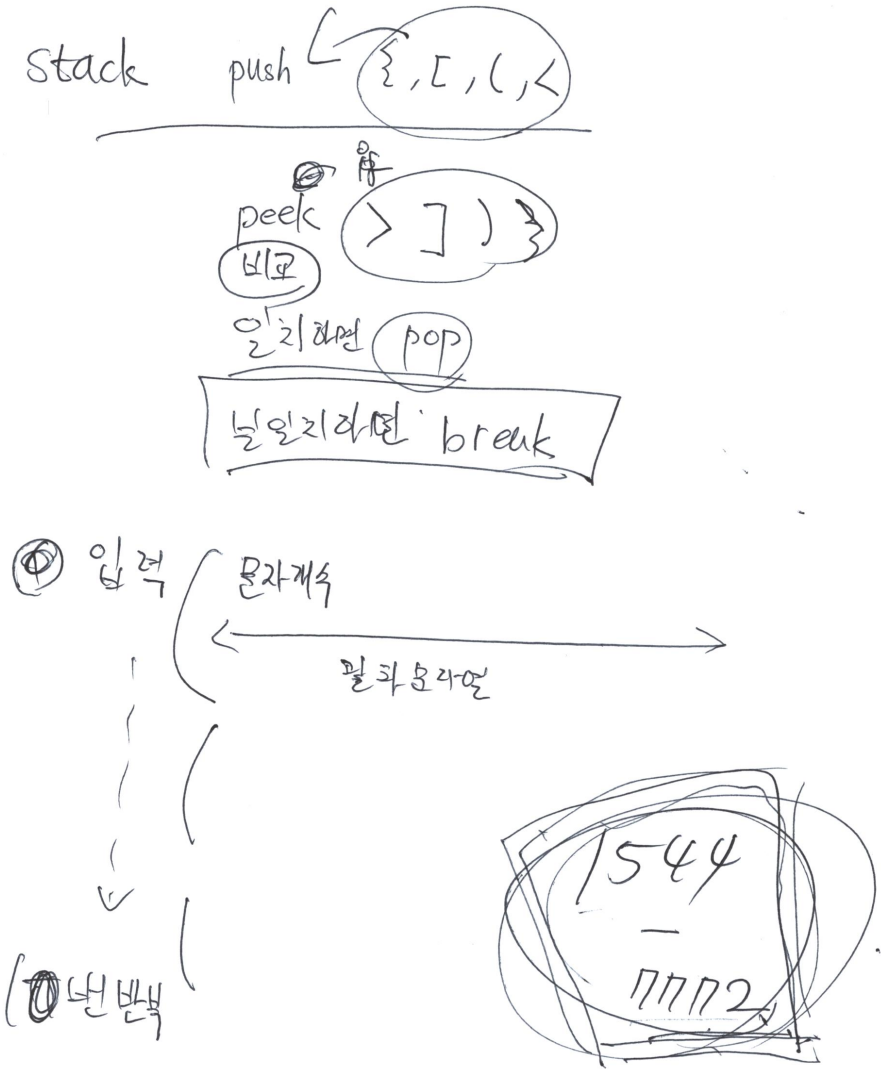
SWEA 1218

날짜	@2021년 8월 5일 → 2021년 8월 5일
링크	
열	
태그	D4 SWEA stack




```
import java.io.BufferedReader;
import java.io.FileInputStream;
```

```
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Arrays;
import java.util.Stack;

public class Solution {
//public class Test1218_3 {
  public static void main(String[] args) throws NumberFormatException, IOException {
    System.setIn(new FileInputStream("C:/CodingStudy/SWEA/D4/1218_input.txt"));
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    for (int tc = 1; tc <= 10; tc++) {
      int idxMax = Integer.valueOf(br.readLine());
      String str = br.readLine();
      char[] strChar = new char[idxMax];
      int charIdx = 0;
      boolean chk = true;
      int chkPop = 1;
      int idx= 0;
      while(idx < idxMax) { // 최대 크기 초과시 종료
        char tmp = str.charAt(idx++);
//        System.out.println(tmp);
        if ((tmp == '(') || (tmp == '{') || (tmp == '[') || (tmp == '<')) {
          strChar[charIdx++] = tmp;
          chkPop = 0;
        }else if (tmp == ')')
          chkPop = (strChar[charIdx-1] == '(') ? 1 : 2;
        else if (tmp == '}')
          chkPop = (strChar[charIdx-1] == '{') ? 1 : 2;
        else if (tmp == ']')
          chkPop = (strChar[charIdx-1] == '[') ? 1 : 2;
        else if (tmp == '>')
          chkPop = (strChar[charIdx-1] == '<') ? 1 : 2;
        if (chkPop == 1)
          --charIdx;
        else if (chkPop == 2) {
          chk = false;
          break;
        }
      }

      if (chk)
        System.out.println("#" + tc + " 1");
      else
        System.out.println("#" + tc + " 0");
    }

  }
}
```

```
import java.io.BufferedReader;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Stack;
```

```
//public class Solution {
public class Test1218_2 {
  public static void main(String[] args) throws NumberFormatException, IOException {
    System.setIn(new FileInputStream("C:/CodingStudy/SWEA/D4/1218_input.txt"));
    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
    Stack<Character> s = new Stack<Character>();
    for (int tc = 1; tc <= 10; tc++) {
      int bracketNum = Integer.valueOf(br.readLine());
      String str = br.readLine();
      boolean chk = true;
      int chkPop = 1;
      for (int idx = 0; idx < bracketNum; idx++) {
        char tmp = str.charAt(idx);
        if ((tmp == '(') || (tmp == '{') || (tmp == '[') || (tmp == '<')) {
          s.push(tmp);
          chkPop = 0;
        }
        else if (tmp == ')')
          chkPop = (s.peek() == '(') ? 1 : 2;
        else if (tmp == '}')
          chkPop = (s.peek() == '{') ? 1 : 2;
        else if (tmp == ']')
          chkPop = (s.peek() == '[') ? 1 : 2;
        else if (tmp == '>')
          chkPop = (s.peek() == '<') ? 1 : 2;

        if (chkPop == 1)
          s.pop();
        if (chkPop == 2) {
          chk = false;
          break;
        }
      }
      if (chk)
        System.out.println("#" + tc + " 1");
      else
        System.out.println("#" + tc + " 0");
    }

  }
}
```

```
import java.io.BufferedReader;
import java.io.FileInputStream;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.Stack;

//public class Solution {
public class Test1218 {
  public static void main(String[] args) throws NumberFormatException, IOException {
    System.setIn(new FileInputStream("C:/CodingStudy/SWEA/D4/1218_input.txt"));

    BufferedReader br = new BufferedReader(new InputStreamReader(System.in));
```

```
    Stack<Character> s = new Stack<Character>();

    for (int tc = 1; tc <= 10; tc++) {
      int bracketNum = Integer.valueOf(br.readLine());
      String str = br.readLine();
      boolean chk = true;
      for (int idx = 0; idx < bracketNum; idx++) {
//        System.out.println(str.charAt(idx));
        switch (str.charAt(idx)) {
        case '(':
          s.push('(');
          break;
        case '{':
          s.push('{');
          break;
        case '[':
          s.push('[');
          break;
        case '<':
          s.push('<');
          break;
        case ')':
          if (s.peek() == '(')
            s.pop();
          else
            chk = false;
          break;
        case '}':
          if (s.peek() == '{')
            s.pop();
          else
            chk = false;
          break;
        case ']':
          if (s.peek() == '[')
            s.pop();
          else
            chk = false;
            break;
        case '>':
          if (s.peek() == '<')
            s.pop();
          else
            chk = false;
          break;
        default:
          chk = false;
          break;
        }
        if (!chk)
          break;
      }
      if (chk)
        System.out.println("#" + tc + " 1");
      else
        System.out.println("#" + tc + " 0");

    }
```

```
  }
}
```