https://course.acciojob.com/idle?question=ea7fc1c8-be76-4490-8a27-b4c5ff4fa51f

- EASY
- Max Score: 30 Points

Balanced Brackets

Given a string s containing just the characters '(', ')', '{', '}', '[' and ']', determine if the input string is valid.

An input string is Balanced if:

1. Open brackets must be closed by the same type of brackets.
2. Open brackets must be closed in the correct order.

Input Format

The first line contains a single integer n(Length of the string)

The second line contains string s

Output Format

Print YES is brackets are balanced otherwise print NO

Example 1

Input

```
2
()
```

Output

```
YES
```

Explanation As **(was closed with) therefore output is**`YES`

Example 2

Input

```
2
(]
```

Output

```
NO
```

Explanation The bracket (was not closed, Therefore output is `NO`

Constraints

```
1 <= s.length <= 104
s consists of parentheses only '()[]{}'
```

Topic Tags

- Stacks

My code

```
// n java
import java.util.*;
import java.lang.*;
import java.io.*;

public class Main
{
	public static void main (String[] args) throws
java.lang.Exception
	{
		//your code here
	Scanner s=new Scanner(System.in);
	int n=s.nextInt();
	String str=s.next();
	if(str=="")//for null string
	{
	  System.out.print("NO");
	  return;
	}
	  if(str.length()%2==1)//not balleced odd length
	  {
	    System.out.print("NO");
	    return;
	  }
	Stack<Character> stk=new Stack<>();
	for(int i=0;i<str.length();i++)
	  {
```

```
        //  System.out.print(str.charAt(i));
          if(str.charAt(i)=='(' || str.charAt(i)=='{' ||  str.charAt(i)=='[')
           stk.push(str.charAt(i)) ;//System.out.print("hi    ");
        else   if(stk.empty()!=true)
           {
              if((str.charAt(i)==')' )&& (stk.peek()=='(')) stk.pop();
            else if((str.charAt(i)=='}' )&&( stk.peek()=='{') )stk.pop();
           else if((str.charAt(i)==']') && (stk.peek()=='[')) stk.pop();
            }
         else
           {
        System.out.print("NO");
        return;
           }
        }
      boolean p=stk.empty();
      if (p==true) System.out.print("YES");
      else System.out.print("NO");

       }
}
```