



Pattern Syntax Checker

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Problem

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Using **Regex**, we can easily match or search for patterns in a text. Before searching for a pattern, we have to specify one using some well-defined syntax.

In this problem, you are given a pattern. You have to check whether the syntax of the given pattern is valid.

Note: In this problem, a regex is only valid if you can compile it using the [Pattern.compile](#) method.

Input Format

The first line of input contains an integer N , denoting the number of testcases. The next N lines contain a string of any printable characters representing the pattern of a regex.

Output Format

For each testcase, print **"Valid"** if the syntax of the given pattern is correct. Otherwise, print **"Invalid"**. Do not print the quotes.

Sample Input

```
3
([A-Z])(.+)
[AZ[a-z](a-z)
batcatpat(nat
```

Sample Output

```
Valid
Invalid
Invalid
```

Submissions: 3422

Max Score: 20

Difficulty: Easy

[More](#)

Current Buffer (saved locally, editable)

Java 7



```
15 import java.util.Scanner;
16 import java.util.regex.*;
17
18 public class Solution
19 {
20     public static void main(String[] args){
21         Scanner in = new Scanner(System.in);
22         int testCases = Integer.parseInt(in.nextLine());
23         while(testCases>0){
```

```
24      String pattern = in.nextLine();
25      //Write your code
26  }
27  }
28  }
29  }
```

Line: 1 Col: 1

 [Upload Code as File](#)

Test against custom input

Run Code

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