

[Practice](#)[Compete](#)[Jobs](#)[Rank](#)[Leaderboard](#)[Dashboard](#) > [Java](#) > [Strings](#) > [Pattern Syntax Checker](#)

Points: 673 Rank: 3244

Pattern Syntax Checker

by [akashs_csedu](#)

Problem

Submissions

Leaderboard

Discussions

Editorial

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 test cases. The next **N** lines contain a string of any printable characters representing the pattern of a regex.

Output Format

For each test case, 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
```

[f](#) [t](#) [in](#)Submissions: [27401](#)

Max Score: 20

Difficulty: Easy

Rate This Challenge:

☆☆☆☆☆

[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

Submit Code

Join us on IRC at [#hackerrank](#) on freenode for hugs or bugs.

[Contest Calendar](#) | [Blog](#) | [Scoring](#) | [Environment](#) | [FAQ](#) | [About Us](#) | [Support](#) | [Careers](#) | [Terms Of Service](#) | [Privacy Policy](#) | [Request a Feature](#)