# Day 28: RegEx, Patterns, and Intro to Databases!



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Welcome to Day 28! Check out an Introduction to Databases, or jump into the challenge. We haven't discussed *RegEx* (Regular Expressions) yet, but that's okay! Review the Pattern documentation, learn what it can do, and apply your new knowledge to this challenge!

RegEx helps us easily search for or match a Pattern in text. Before searching for a Pattern, we must specify it using some well-defined syntax.

Given a string, determine if it's a valid Pattern or not. The string may contain spaces.

**Note**: This is a java only challenge, a *RegEx* is only valid if you can *compile* it using the Pattern.compile method. You may find using a *try-catch* block helpful here.

#### **Input Format**

The first line of input contains an integer, T (the number of test cases).

The T subsequent lines of test cases each contain a string of characters describing a RegEx.

## Constraints

 $1 \leq T \leq 100$ 

#### **Output Format**

On a new line for each test case, print Valid if the given RegEx's syntax is correct; otherwise, print Invalid.

# Sample Input

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

# Sample Output

Valid Invalid Invalid

# **Explanation**

The second and third test cases have unbalanced brackets and will throw a PatternSyntaxException when compiled. For example:

[AZ[a-z](a-z) is Invalid, but [AZ[a-z](a-z)] would be Valid. batcatpat(nat is Invalid, but batcatpat(nat) would be Valid.

Submissions: 1892 Max Score: 100 Difficulty: Easy

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