



# Java Regex 3 - Username Checker



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Problem

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Regular expressions (***regex***) help us match or search for patterns in strings. In this problem, you will be given a username. Your task is to check whether that username is valid. A valid username will have the following properties:

1. The username can contain alphanumeric characters and/or underscores(\_).
2. The username must start with an alphabetic character.
3.  $8 \leq |\text{Username}| \leq 30$ .

To simplify your task, we have provided a portion of the code in the editor. You just need to write down the ***regex*** pattern which will be used to validate the username input.

## Input Format

The first line of input contains an integer ***N***, representing the number of testcases. Each of the next ***N*** lines contains a string that represents a username.

## Constraints

- The username consists of any printable characters.
- $1 \leq N \leq 100$

## Output Format

For each username, output `Valid` if the username is valid; otherwise, output `Invalid`.

## Sample Input

```
4
alpha_naheed
xahidbuffon
nagib@007
123Swakkhar
```

## Sample Output

```
Valid
Valid
Invalid
Invalid
```

## Explanation



The first two cases fulfill the constraints of a valid username. The third case is invalid because it contains an invalid character '@'. The fourth case is also invalid because it starts with a numeric character.

Submissions: 9240

Max Score: 20

Difficulty: Medium

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```
1 ▶ import <?>;
6
7 public class Solution {
8     public static void main(String[] args){
9         Scanner in = new Scanner(System.in);
10        int testCases = Integer.parseInt(in.nextLine());
11        while(testCases>0){
12            String username = in.nextLine();
13            //String pattern = Complete this line in the editable area below
14
15
16 String pattern = ~~Write your pattern here~~;
17
18
18 Pattern r = Pattern.compile(pattern);
19     Matcher m = r.matcher(username);
20
21     if (m.find( )) {
22         System.out.println("Valid");
23     } else {
24         System.out.println("Invalid");
25     }
26     testCases--;
27 }
28 }
29 }
30 }
```

Line: 4 Col: 1

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