



Valid Username Regular Expression

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Problem

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A username is considered valid if all the following constraints are satisfied:

- The username consists of **8** to **30** characters inclusive, i.e., if the username consists of less than **8** or greater than **30** characters, then it is invalid username.
- The username must contain alphanumeric characters, and underscores (`_`) only. Alphanumeric characters describe the character set consisting of *lowercase* characters [`a` – `z`], *uppercase* characters [`A` – `Z`], and digits [`0` – `9`].
- The *first* character of the username must be an *alphabetic* character, i.e., either *lowercase* character [`a` – `z`] or *uppercase* character [`A` – `Z`].

For example:

- Julia** is invalid user name because it contains less than **8** characters.
- Samantha** is valid as it satisfies all the three constraints for a valid username.
- Samantha_21** is valid as it satisfies all the three constraints for a valid username.
- 1Samantha** is invalid as the first character must be *alphabetic*.
- Samantha?10_2A** is invalid as it contains the **?** which does not belong to any of the allowed characters set.

Update the value of `regularExpression` field in the `UsernameValidator` class so that the regular expression only matches with valid usernames.

Input Format

The first line of input contains an integer ***n***, describing the total number of usernames. Each of the next ***n*** lines contains a string describing the username. The locked stub code reads the inputs and validates the username.

Constraints

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

Output Format

For each of the usernames, the locked stub code prints `Valid` if the username is valid; otherwise `Invalid` each on a new line.

Sample Input 0

```
8
Julia
Samantha
Samantha_21
1Samantha
Samantha?10_2A
JuliaZ007
Julia@007
_Julia007
```

Sample Output 0

Invalid
Valid
Valid
Invalid
Invalid
Valid
Invalid
Invalid

Explanation 0

- **Julia** is invalid user name because it contains less than 8 characters.
- **Samantha** is valid as it satisfies all the three constraints for a valid username.
- **Samantha_21** is valid as it satisfies all the three constraints for a valid username.
- **1Samantha** is invalid as the first character must be *alphabetic*.
- **Samantha?10_2A** is invalid as it contains the **?** which does not belong to any of the allowed characters set.
- **JuliaZ007** is a valid username as it satisfies all the constraints.
- **Julia@007** is an invalid username as it contains the invalid character, **@**.
- **_Julia007** is an invalid username as the first character is **_** which is not an *alphabetic* character.

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Max Score: 20



Difficulty: Easy

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Java 7  

```
1 import java.util.Scanner;
2
3 class UsernameValidator {
4     /*
5      * Write regular expression here.
6      */
7     public static final String regularExpression = null;
8 }
9
10 public class Solution {
11     private static final Scanner scan = new Scanner(System.in);
12
13     public static void main(String[] args) {
14         int n = Integer.parseInt(scan.nextLine());
15         while (n-- != 0) {
16             String userName = scan.nextLine();
17
18             if (userName.matches(UsernameValidator.regularExpression)) {
19                 System.out.println("Valid");
20             } else {
21                 System.out.println("Invalid");
22             }
23         }
24     }
25 }
```

```
23 |      }  
24 |    }  
25 | }
```

Line: 9 Col: 1

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☐ Test against custom input

Run Code

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