**Valid Username Regular Expression**

<https://www.hackerrank.com/challenges/valid-username-checker/problem>

You are updating the username policy on your company's internal networking platform. According to the policy, a username is considered valid if all the following constraints are satisfied:

* The username consists of 8 to 30 characters inclusive. If the username consists of less than 8 or greater than 30 characters, then it is an invalid username.
* The username can only contain alphanumeric characters and underscores (\_). 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:

| **Username** | **Validity** |
| --- | --- |
| Julia | INVALID; Username length < 8 characters |
| Samantha | VALID |
| Samantha\_21 | VALID |
| 1Samantha | INVALID; Username begins with non-alphabetic character |
| Samantha?10\_2A | INVALID; '?' character not allowed |

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 <= n <= 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**

Refer diagram in the challenge statement.