HackerRank

Valid Username Regular Expression

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 ($\underline{}$). 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

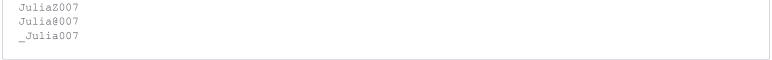
- 1 < n < 100
- The username consists of any printable characters.

Output Format

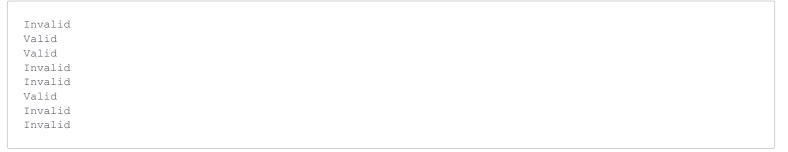
For each of the usernames, the locked stub code prints Valid if the username is valid; otherwise Invalid each on a new line.

Sample Input 0

```
8
Julia
Samantha
Samantha_21
1Samantha
Samantha 21
2A
```



Sample Output 0



Explanation 0

Refer diagram in the challenge statement.