

Strong password check

Recently a security committee decided to enforce the following rules when an employee creates/changes his/her password.

- The password must contain atleast one special character among # ! _ \$ @
- The password must contain atleast two numbers
- The password must contain atleast one upper case alphabet and one lower case alphabet.
- The password must have a minimum length of 8.
- The password must have a maximum length of 25.

The program must accept a given password string P as input and check for these rules and output VALID or INVALID.

Boundary Conditions:

Length of P is from 2 to 50.

Input Format:

First line will contain the string value of the password P

Output Format:

VALID or INVALID based on the check performed by the program by applying the rules.

Example Input/Output:**Example 1:**

Input:

kiC_3b0x3r

Output:

VALID

Example 2:

Input:

m@d31nindia

Output:

INVALID

Explanation:

No alphabet in uppercase.

Example 3:

Input:

M1kT!s0

Output:

INVALID

Explanation:

Minimum length must be 8