



# Validating UID ★

90/115 challenges solved

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ABCXYZ company has up to **100** employees.

The company decides to create a unique identification number (UID) for each of its employees.

The company has assigned you the task of validating all the randomly generated UIDs.

A valid UID must follow the rules below:

- It must contain at least **2** uppercase English alphabet characters.
- It must contain at least **3** digits (**0 - 9**).
- It should only contain alphanumeric characters (**a - z**, **A - Z** & **0 - 9**).
- No character should repeat.
- There must be exactly **10** characters in a valid UID.

## Input Format

The first line contains an integer **T**, the number of test cases.

The next **T** lines contains an employee's UID.

## Output Format

For each test case, print 'Valid' if the UID is valid. Otherwise, print 'Invalid', on separate lines. Do not print the quotation marks.

## Sample Input

```
2
B1CD102354
B1CDEF2354
```

## Sample Output

```
Invalid
Valid
```

## Explanation

**B1CD102354**: **1** is repeating → Invalid

**B1CDEF2354**: Valid

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Language

Python 3



```
1 # Enter your code here. Read input from STDIN. Print output to STDOUT
2 import re
3
4 def is_valid_uid(uid):
5     # Rule 1: Exactly 10 characters
6     if len(uid) != 10:
7         return False
```

```
8
9     # Rule 2: Only alphanumeric characters
10    if not uid.isalnum():
11        return False
12
13    # Rule 3: At least 2 uppercase letters
14    if len(re.findall(r'[A-Z]', uid)) < 2:
15        return False
16
17    # Rule 4: At least 3 digits
18    if len(re.findall(r'\d', uid)) < 3:
19        return False
20
21    # Rule 5: No repeating characters
22    if len(set(uid)) != len(uid):
23        return False
24
25    return True
26
27    n = int(input())
28    for _ in range(n):
29        uid = input().strip()
30        print("Valid" if is_valid_uid(uid) else "Invalid")
31
```

EMACS

Line: 31 Col: 1

 Upload Code as File☐ Test against custom input

Run Code


Submit Code

 Test case 0

Compiler Message

 Test case 1 



Success

 Test case 2 

Input (stdin)

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1	2
2	B1CD102354
3	B1CDEF2354

 Test case 3 

Expected Output

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1	Invalid
2	Valid

