Validating UID ★

85/115 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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```
1    import re
2
```

```
  3    def is_valid_uid(test_case: str) -> bool:
  4        pattern = r'^(?=(?:[a-z\d]*[A-Z]){2})(?=(?:\D*\d){3})(?:([a-zA-Z\d])(?!.*\1)){10}$'
  5
  6        return re.search(pattern, test_case)
  7
  8    if __name__ == '__main__':
  9        tests = [input() for _ in range(int(input()))]
 10
 11        for t in tests:
 12            print('Valid' if is_valid_uid(t) else 'Invalid')
 13
```

Line: 13 Col: 1

⇧ Upload Code as File   ☐ Test against custom input   Run Code   Submit Code

You have earned 40.00 points!
85/115 challenges solved.

74%

Python
★★★★★

Congratulations
You solved this challenge. Would you like to challenge your friends?

Next Challenge

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⊘ **Test case 0**

⊘ **Test case 1** 🔒

⊘ **Test case 2** 🔒

⊘ **Test case 3** 🔒

Compiler Message

Success

Input (stdin)   Download

  1   2
  2   B1CD102354
  3   B1CDEF2354

Expected Output   Download

  1   Invalid
  2   Valid