



Validating Roman Numerals ★

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Problem

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Editorial 𑉀

You are given a string, and you have to validate whether it's a valid Roman numeral. If it is valid, print True. Otherwise, print False. Try to create a regular expression for a valid Roman numeral.

Input Format

A single line of input containing a string of Roman characters.

Output Format

Output a single line containing True or False according to the instructions above.

Constraints

The number will be between **1** and **3999** (both included).

Sample Input

```
CDXXI
```

Sample Output

```
True
```

References

Regular expressions are a key concept in any programming language. A quick explanation with Python examples is [available here](#). You could also go through the link below to read more about regular expressions in Python.

<https://developers.google.com/edu/python/regular-expressions>

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Language

Python 3



```
1 regex_pattern = r"^M{0,3}(C[MD]|D?C{0,3})(X[CL]|L?X{0,3})(I[XV]|V?I{0,3})$" # Do not
  delete 'r'.
2
3 import re
4 print(str(bool(re.match(regex_pattern, input()))))
```

Line: 4 Col: 51

[Upload Code as File](#) ☐ Test against custom input

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Test case 0

Test case 1

Test case 2

Test case 3

Test case 4

Test case 5

Test case 6

Compiler Message

Success

Input (stdin)

1 CDXXI

Expected Output

1 True

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