

13. Roman to Integer

Easy
1189
94
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Roman numerals are represented by seven different symbols: **I**, **V**, **X**, **L**, **C**, **D** and **M**.

Symbol	Value
I	1
V	5
X	10
L	50
C	100
D	500
M	1000

For example, 2 is written as **II** in Roman numeral, just two one's added together. 12 is written as **XII**, which is simply **X** + **II**. The number 27 is written as **XXVII**, which is **XX** + **V** + **II**.

Roman numerals are usually written largest to smallest from left to right. However, the numeral for four is not **IIII**. Instead, the number four is written as **IV**. Because the one is before the five we subtract it making four. The same principle applies to the number nine, which is written as **IX**. There are six instances where subtraction is used:

- I** can be placed before **V** (5) and **X** (10) to make 4 and 9.
- X** can be placed before **L** (50) and **C** (100) to make 40 and 90.
- C** can be placed before **D** (500) and **M** (1000) to make 400 and 900.

```

1 class Solution:
2     # @param {string} s
3     # @return {integer}
4     def romanToInt(self, s):
5         roman = {'M': 1000, 'D': 500, 'C': 100, 'L': 50, 'X': 10, 'V': 5, 'I': 1}
6         z = 0
7         for i in range(0, len(s) - 1):
8             if roman[s[i]] < roman[s[i+1]]:
9                 z -= roman[s[i]]
10            else:
11                z += roman[s[i]]
12
13        return z + roman[s[-1]]

```

Your previous code was restored from your local storage. [Reset to default](#)

Testcase
Run Code Result
Debugger

Accepted
Runtime: 64 ms

Your input

"III"

Output

3

Diff

Expected

3