

# 13. Roman to Integer

Easy

👍 1189

🔒 94

❤️ Add to List

🔗 Share

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     def romanToInt(self, s: str) -> int:
3         translations = {
4             "I": 1,
5             "V": 5,
6             "X": 10,
7             "L": 50,
8             "C": 100,
9             "D": 500,
10            "M": 1000
11        }
12        number = 0
13        s = s.replace("IV", "IIII").replace("IX", "VIIII")
14        s = s.replace("XL", "XXXX").replace("XC", "LXXXX")
15        s = s.replace("CD", "CCCC").replace("CM", "DCCCC")
16        for char in s:
17            number += translations[char]
18        return number

```

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

Testcase

Run Code Result

Debugger

Accepted

Runtime: 51 ms

Your input

"III"

Output

3

Expected

3

Diff