Unknown Title

Description

Description

Note

Note

×

Editorial

Editorial

Solutions

Solutions

Submissions

Submissions

</>

Code

Code

☑

Testcase

Testcase

>_

Test Result

Test Result

13. Roman to Integer

Easy

🏷
Topics
🔒Companies
💡
Hint

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 ones 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.

Given a roman numeral, convert it to an integer.

Example 1:

```
Input: s = "III"
Output: 3
Explanation: III = 3.
```

Example 2:

```
Input: s = "LVIII"
Output: 58
Explanation: L = 50, V= 5, III = 3.
```
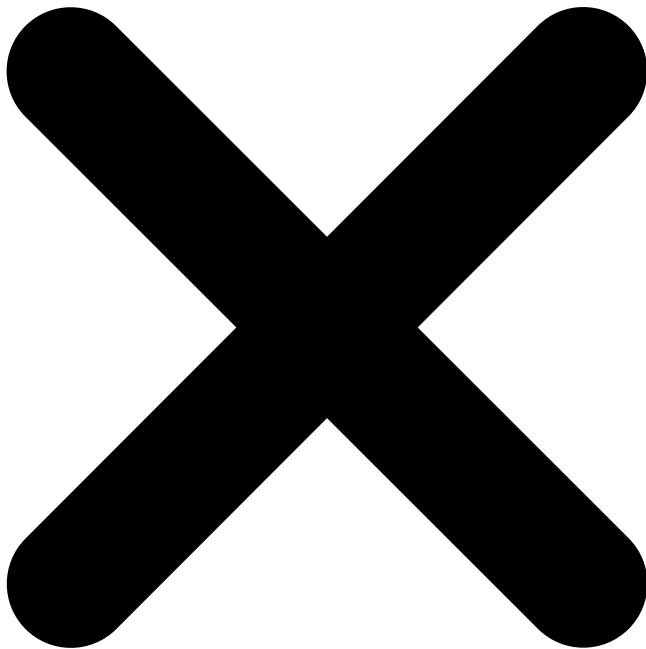
Example 3:

```
Input: s = "MCMXCIV"
Output: 1994
Explanation: M = 1000, CM = 900, XC = 90 and IV = 4.
```

Constraints:

- 1 <= s.length <= 15
- s contains only the characters ('I', 'V', 'X', 'L', 'C', 'D', 'M').
- It is **guaranteed** that s is a valid roman numeral in the range [1, 3999].

Seen this question in a real interview before?

1/5

Yes

No

Accepted

4.2M

Submissions

6.7M

Acceptance Rate

63.1%

🔒

Companies

⌄

💡

Hint 1

⌄

Problem is simpler to solve by working the string from back to front and using a map.

🗏

Similar Questions

⌄

[Integer to Roman](#)

Medium

💬

Discussion (355)

⌄

⟨/⟩
🔗
@

💡 Discussion Rules

✕

1. Please don't post **any solutions** in this discussion.

2. The problem discussion is for asking questions about the problem or for sharing tips - anything except for solutions.

3. If you'd like to share your solution for feedback and ideas, please head to the solutions tab and post it there.

No comments yet.

1

2

3

4

5

```java
class Solution {
    public int romanToInt(String s) {


    }
}
```


Saved

Ln 1, Col 1

s =

"III"

9

1

2

3

›

"III"

"LVIII"

"MCMXCIV"

</>
Source
ⓘ

FindHeaderBarSize

FindTabBarSize

FindBorderBarSize