Unknown Title

Description

Description

Note

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Code

Code

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Testcase

Testcase

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Test Result

Test Result

12. Integer to Roman

Medium

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Seven different symbols represent Roman numerals with the following values:

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

Roman numerals are formed by appending the conversions of decimal place values from highest to lowest. Converting a decimal place value into a Roman numeral has the following rules:

- If the value does not start with 4 or 9, select the symbol of the maximal value that can be subtracted from the input, append that symbol to the result, subtract its value, and convert the remainder to a Roman numeral.
- If the value starts with 4 or 9 use the **subtractive form** representing one symbol subtracted from the following symbol, for example, 4 is 1 (I) less than 5 (V): IV and 9 is 1 (I) less than 10 (X): IX. Only the following subtractive forms are used: 4 (IV), 9 (IX), 40 (XL), 90 (XC), 400 (CD) and 900 (CM).
- Only powers of 10 (I, X, C, M) can be appended consecutively at most 3 times to represent multiples of 10. You cannot append 5 (V), 50 (L), or 500 (D) multiple times. If you need to append a symbol 4 times use the **subtractive form**.

Given an integer, convert it to a Roman numeral.

Example 1:

Input: num = 3749

Output: "MMMDCCXLIX"

Explanation:

```
3000 = MMM as 1000 (M) + 1000 (M) + 1000 (M)
 700 = DCC as 500 (D) + 100 (C) + 100 (C)
  40 = XL as 10 (X) less of 50 (L)
   9 = IX as 1 (I) less of 10 (X)
Note: 49 is not 1 (I) less of 50 (L) because the conversion is based on decimal
places
```

Example 2:

Input: num = 58

Output: "LVIII"

Explanation:

```
50 = L
 8 = VIII
```

Example 3:

Input: num = 1994

Output: "MCMXCIV"

Explanation:
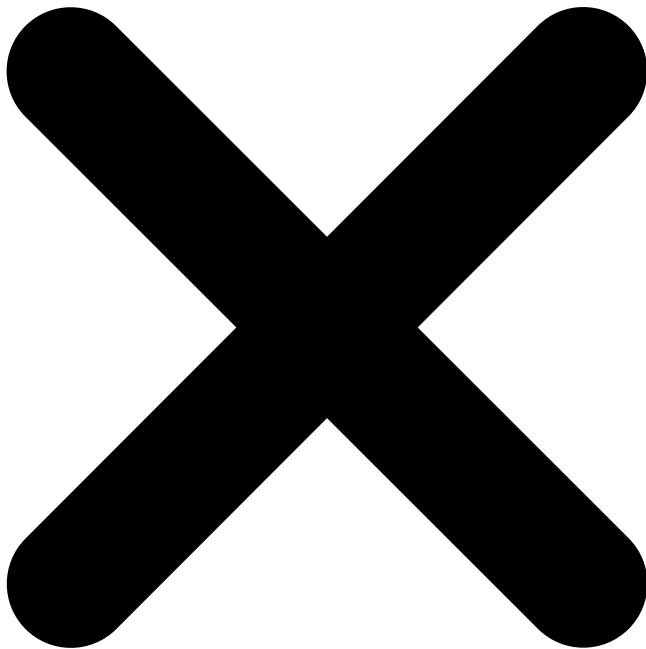
```
1000 = M
 900 = CM
  90 = XC
   4 = IV
```

Constraints:

- `1 <= num <= 3999`

Seen this question in a real interview before?

1/5

Yes

No

Accepted

1.5M

Submissions

2.3M

Acceptance Rate

66.7%

🔒

Companies

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Discussion (100)

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💡 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

class Solution {

    public String intToRoman(int num) {



    }
```

}

Saved

Ln 1, Col 1

num =

3749

9

1

2

3

›

3749

58

1994

</>
Source
ⓘ

FindHeaderBarSize

FindTabBarSize

FindBorderBarSize