

leetcode.com/problems/integer-to-roman/?envType=problem-list-v2&envId=string

String<>RunSubmit

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12. Integer to Roman

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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

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Code

JavaAuto

```
1 class Solution {
2     public String intToRoman(int num) {
3         int[] n = {1000, 900, 500, 400, 100, 90, 50, 40, 10, 9, 5, 4, 1};
4         String[] s = {"M", "CM", "D", "CD", "C", "XC", "L", "XL", "X", "IX", "V", "IV", "I"};
5         int i = 0;
6         String str = new String();
7         while (num > 0) {
8             if (num >= n[i]) {
9                 str = str + s[i];
10                num = num - n[i];
11            } else {
12                i++;
13            }
14        }
15        return str;
16    }
17 }
```

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TestcaseTest Result

AcceptedRuntime: 0 ms

Case 1Case 2Case 3

Input

num = 3749