



Description

Solution

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Submissions

C#

i {} ↺

## 12. Integer to Roman

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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.

Given an integer, convert it to a roman numeral.

### Example 1:

Input: num = 3

Output: "III"

Explanation: 3 is represented as 3 ones.

### Example 2:

```

1 public class Solution {
2     static Dictionary<int, string> numMap = new Dictionary<int, string>() {
3         {1, 'I'},
4         {5, 'V'},
5         {10, 'X'},
6         {50, 'L'},
7         {100, 'C'},
8         {500, 'D'},
9         {1000, 'M'}
10    };
11
12    public string IntToRoman(int num) {
13        //Initialize the variables
14
15        var div = 1000;
16        StringBuilder sb = new StringBuilder();
17        //Iterate through the number
18        while(num > 0)
19        {
20            var hiDigit = num/div;
21            num = num % div;
22            if(hiDigit != 0)
23            {
24                sb.Append(makeString(hiDigit, div));
25            }
26            div /= 10;
27        }
28        //switch case to handle the current value
29        //calculate the remainder and get the relevant roman numeral

```

Testcase

Run Code Result

Accepted

Runtime: 114 ms

Your input

3

Output

"III"

Expected

"III"

Console

Use Example Testcase

Run Code

Submit

Problems

Pick One

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Next &gt;