[**Roman to Integer**](https://leetcode.com/problems/roman-to-integer/)

**public** **class** RomanToInteger {

**public** **static** **void** main(String[] args) {

System.***out***.println(*romanToInt*("MCMXCIV"));

}

**public** **static** **int** romanToInt(String s) {

**if**(s == **null** || s.length() == 0) {

**return** 0;

}

**int**[] roman = **new** **int**[s.length()];

**int** i = 0 ;

**for**(**char** c : s.toCharArray()) {

**switch**(c) {

**case** 'I':

roman[i++] = 1;

**break**;

**case** 'V':

roman[i++] = 5;

**break**;

**case** 'X':

roman[i++] = 10;

**break**;

**case** 'L':

roman[i++] = 50;

**break**;

**case** 'C':

roman[i++] = 100;

**break**;

**case** 'D':

roman[i++] = 500;

**break**;

**case** 'M':

roman[i++] = 1000;

**break**;

**default**:

roman[i++] = 0;

**break**;

}

}

**int** result = 0;

**for**(**int** j = 0 ; j < roman.length - 1 ; j++) {

**if**(roman[j] < roman[j + 1]) {

result -= roman[j];

}

**else** {

result += roman[j];

}

}

**return** result + roman[roman.length - 1];

}

}

Time Complexity : O(n) , n is length of string

Space Complexity : O(n), n is length of string