

ROMAN NUMERALS TO INTEGERS

★ In this problem, we are given a roman number as a string and are supposed to return its integer equivalent.

Intuition used to solve this problem is the rule of Roman Numerals. If current numeral is lesser than next, its value is subtracted from result otherwise it is added.

Eg : IV is $-1 + 5 = 4$
 VI is $5 + 1 = 6$

Pseudocode :

```
romanToInt(str, N) {  
    result = 0  
    for (i = 0 → N-1) {  
        if (i+1 < N && c2n(str[i]) < c2n(str[i+1])) {  
            result -= c2n(str[i])  
        } else {  
            result += c2n(str[i])  
        }  
    }  
    return result  
}  
c2n(a) {  
    switch (a) {  
        case 'I':
```

```
    return 1  
case 'V':  
    return 5  
case 'X':  
    return 10  
case 'L':  
    return 50  
case 'C':  
    return 100  
case 'D':  
    return 500  
case 'M':  
    return 1000  
default:  
    return 0
```

```
}  
}
```