



$x = -3$

CLXV

XCIV

✓

check operation

next < current

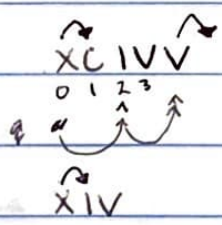
XCIV

add

subtract

too big throw too small

else



bigger and not too big

subtract

calculate, move index, add

else

add

curr + next

if subtractive

Subtractives

Single use

IV = 4

↔

V = 5

calculate subtractive, add to total

IX = 9

L = 50

else

XL = 40

D = 500

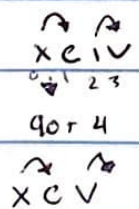
add to total $C+1$

XC = 90

Subtractives

CD = 400

CM = 900



(next - curr) is subtractive

calculate, add to total

else

[XC]IV

next < curr

curr > next

90 +

add

single use

subtractive

subtractives

single use

XCIV

154

if $n \% 9$ is $< n$ * $\% M = 154$ $\% D = 154$ $\% C = 54$

CL

54 $\% L = 4$ 4 $\% X = 4$ $\% V = 4$ $\% I =$

check if Decimal is Subtractive (int num) {

996

154 $\% M = 154, 996$

CLIV

convertToNumerals()

 $\% CM = 154, 96$

CMXCVI

check if 1, 2, 3

96 $\% D = 154, 96$

check Numeral (numeral, num) {

if so add I, II, III

 $\% CD = 154, 96$ if (num $\%$ numeral $<$ num) $\% C = 54, 96$

add Numeral to solution

54 $\% XC = 54, 6$ $\$ num = num \% numeral;$ 6 $\% L = 4, 6$ 4 $\% XL = 4, 6$ $23 \% 10 = 3 < num - val$ $\% X = 4, 6$

5

 $\% IX = 4, 6$ $\% V = 4, 1, 3$ 0, 1 $\% IV = 0$

Calculator

Numeral Enum

Decimal To Numeral
Numeral To Decimal