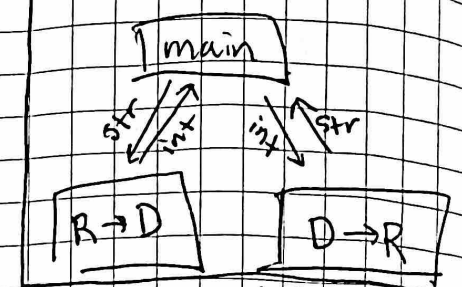
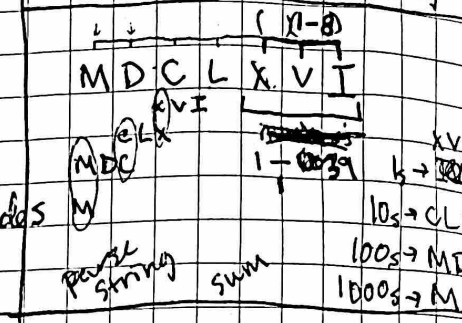
Roman to decimal

Instruction

I = 1 | II = 2 | III = 3 | IIV = 4
V = 5 | VI = 6 | VII = 7 | VIII = 8 | IX = 9
X = 10
L = 50 | LXXXIX = 89 | XC = 90
C = 100
D = 500 | XL IX = 49 | CDXCIX = 499
M = 1,000 | XCIX = 99 | CMXCIX = 999

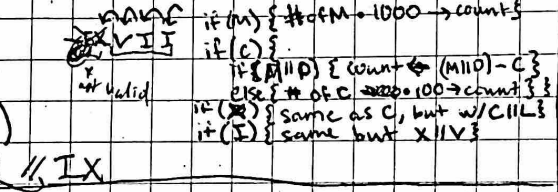
1. Values are combined
2. if symbol A is less than the one following it (B) A is subtracted from B
3. Subtractive Notation only includes two symbols
4. A symbol may not precede 10x+1





R→D (LXXXIX)
for (each char in str)
if (i < i+1)

R→D (str)
int count = 0
for (i in str)
if (i < i+1) // IX

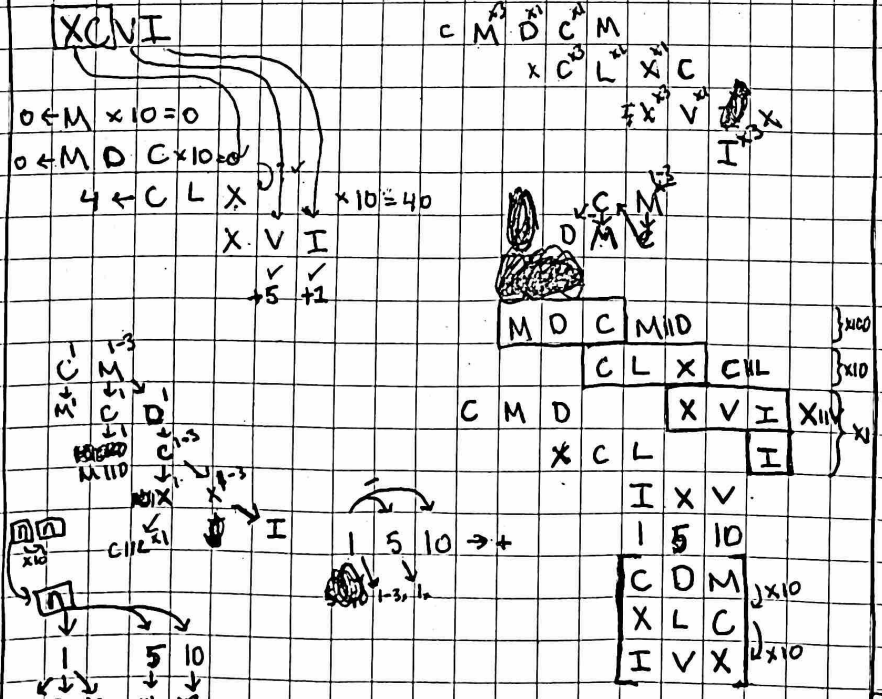


1) The current char (i) is less than i+1.
2) i = i+1
3) i > i+1
1.a) if i < i+2 → inval.
1.b) count += i - i+1
2.a) continue until i+n ≠ i
2.b) if n > 10 → inval.
2.c) count += i × n
3.a) count += i

R→D (str)
for (i in str.backwards)
if (i == I) { count ++ }

I→1-3
V→4-8
X→9-39
L→40-89
C→90-399
D→400-899
M→900-3999

I - III
IV - VIII
IX - XXXIX
XL - LXXXIX
XC - CCCLXXXIX
CD - DCCCXCIX
CM - MMMCMXCIX



rules - [illegible]
if I, X, C are at the end then count # of times before new char (can't exceed 3)

if it starts w/ a V-M check the next char [illegible] is [illegible] I, X, C