4 rules to RN

1. Combined +

2. - if A<B, AB then B-A

3. - only 2

4. preceding symbols must be = or less than just by one symbol

Plan of attack

30 min - pseudo code
2 hrs - write code
1 hr - test code / debug
30 - buffer & upload to github

Started at 12:43 pm

Pseudo code (roundraft)

→ initialize the seven numeral symbols ← use dictionary (map)
→ add symbols together (rule 1)
if A<B B-A
(only ever 1 symbol preceding for -)
if (rule 4)

~~for (int i = 0; i <= size . rn ; i ++)~~

cin the rn

```
for ( int i=0 ; i <= rn.length() ; i++)
    if (rn[i] <= rn[i+1]) {
        add the two values
        rn[i] + rn[i++]
    if ( rn[i] >
```

what if rn == X (just a single character input)? how

~~VL~~

how do I access the value of rn?

```
rnMap[rn[i]];
```

```
if ( rnMap[rn[i]] > rnMap[rn[i-1]]){
    DV_ = rnMap[rn[i]] - something
```

XIV

dv = 10

dv = 11

v -

~~DX~~ CM

dv = 100

dv = 100 + 1000 - (2*100)

= 900

rnMap[rn[i]] - (2 x rnMap[rn[i-1]])

XIV

dv = 10

d = 10 + 1 = 11

dv = 11 + 5 - (1),

= 15

11 + 5 - (2*1)

= 14

CM

dv = 100

dv = 100 + 1000 - (2*100)

1100 - 200

= 900

```
dec to rom (   ) {
    if (dec // 1000 == 0)
    if (dec - 1000 >= 0)
        add "M" to string romNum
```

times up at 4:45 pm

please see my comments I have made throughout the program in main.cpp to understand my thought process