

# Caden Brinkman Code Challenge Notes

Start time 12:17 PM End time 2:28 PM

For conversion from numeral to decimal:

- If decreasing in value add normally
- If increasing subtract  $(B-A)$  and set previous to null for next pair // This is for rule #3 only two symbols
- As we go through we need to check if the string is valid
  - ↳ we keep track of the min numeral we have encountered
  - ↳ we can then test each new symbol to see if it passes the  $< 10x + 1$  test

For conversion from decimal to numeral:

- Check that it is positive
- Can treat each digit separately
- There is a maximum of 3 same symbols in a row

1	2	3	4	5	6	...	9	10
I	II	III	IV	V	VI		<del>IX</del>	<del>X</del>

↑  
note we use the next greatest

↑  
note we use the 2nd greatest

- Check edge cases → maximum input, no input, minimum input

• Note: This program was built in Clien, with C++

Overall time taken ≈ 2hrs 10min