| ®®® Code   | Memo No   |
|--|---|
| Mo Tu We Th Fr Sa Su Challes   | Date. 3/25/23/  |
| convert roman-decimal AND a  | decimal - roman                                       |
| YNUS   |   |
| -add symbols together (111=3, 1  | 111=7, CLXV=165)                                      |
| - Subtract too (if symbol A < B (nex   | itsymbol), AB=B-A)                                    |
| - IV=4, XL=40, XC=90   | Cast entite NO  |
| - Subtraction only involves 2 syr  | mbols   |
| -a symbol of lox may not preced  | e any symbol > 10x+                                   |
| -a symbol of lox may not preced  | My X or Valus ≥ C                                     |
|  | 20/11/30  |
| ideas:   |   |
| decimal-roman first  | 494 150 1755 E  |
| · check each digit using % +(1)-   | maybe not, we don't want each to be in the ones place |
| · can't °1. by 10 each time be it's = 0 af   | ter the first digit                                   |
| · make exponent var that increases how   |   |
| need to convert in same loop or  | make a list   |
| and use it in another loop   |   |
| · Conversion   |   |
| - check for standard roman vall  | ver first (in pre. list                               |
| - make string & concatenate each   |   |
| TIME OF THE CONTRACTOR CONTRACTOR  |   |
|  |   |
| And the second s |   |

|                            | Memo No.                                       |
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| Mo Tu We Th Fr Sa Su       | Date. / /                                      |
| roman numeral patter       | note the second bear.                          |
| I II III II I              | * VII VIII = 1X X                              |
|                            | + 5 5 5  |
|                            | and the street will be the                     |
| X XX XXX XI XL             | LX LXX LXXX XC C                               |
| = + = =                    | 10 10 10 10 10 10 10 10 10 10 10 10 10 1       |
|                            |  |
| C. CC CCC CD D DC          | DCC DCCC, CM, M                                |
| = + - :                    | +  |
|                            | or the state of agent the                      |
| 3 instances                | Mary Different Lands and File Co.              |
| = When # = nume            | ral he has been all of the                     |
| + between = and -          | (marmed last in code pro                       |
| - lonly when it's on       | ie less than numeral                           |
| Or #- 1 x luspiace         |  |
|                            |  |
| I could try to combine of  | 5410, 504 100, and 500+1000                    |
| because finding the subra  | acting numeral is using the                    |
| same tens place            |  |
|                            |  |
| What if I added a bas      | e variable that changes                        |
| to the correct 10s pla     | e variable that changes<br>in numeral for each |
| group listed above?        |  |
|                            |  |
| Could I do 2 loops, one in | the other to loop thruth                       |
| list and the roman no      | imerals?                                       |

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| I need to make a dictionary w I and their values I think.  | roman nums  |
| Then I can iterate through a list Values, using the same index can con and add the right roman numeral   | of keys + npane #values strings                         |
| I don't think I need a dictionary act  | tually  |
| I do need to make its possible for to be checked in the string   |   |
|  | alternations  |
| And the second of the second o | n digid klama i<br>Nikorit allaksia<br>Jaiq ittäk saase |
| Legran deil diesem einde he  | LLCII ANDW  |
| 196713   | 1.0121 4.019  |

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100

I.

IP.

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| Memo No. |  |
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|          |  |

Date. /

I was able to complete the part of the challenge to convert decimals to roman numerals to the best of my knowledge.

| numerals to the best of my knowledge.  |
|--|
| I did not complete the part of the challenge to convert roman numerals to decimals. I wrote out as much of the logic as I could and got far enough to convert a single letter to its decimal value.  |
|  |
| STATE OF THE STATE |
| X + 1Z shepsyc kilvo mio I   |
| The second secon |
| THE STATE OF THE S |
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| The same of the sa |