

R1: if N is greater than 39
 then print an error message

R2: if N is greater than 9
 then print 'X'
 subtract 10 from N

R3: if N is equal to 9
 then print 'IX'
 set N to 0

R4: if N is greater than 4
 then print 'V'
 subtract 5 from N

R5: if N is equal to 4
 then print 'IV'
 set N to 0

R6: if N is greater than 0
 then print 'I'
 subtract 1 from N