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;; Quiz 2
;; CSc 335 Spring 2024
;; Section M
;;
;; Name and Last 4:
;; This is a closed book, closed notes, no devices quiz. Even the sight of an
;; open phone or other device will result in your failing the quiz.
;; Write your answers on this sheet - if you use additional sheets, you'll need
;; to put your name and last 4 on those as well.
;; Problem 1 (2 points)
;; Specify, design, develop/prove and code a purely functional properly recursive
;; scheme procedure
                                        mapnum
;; with argument n, where n is a non-negative integer, and which returns the
;; number formed from n by replacing each of its digits j by the digits (in order)
;; of (cube j).
;; Thus (mapnum 403612) returns 6402721618.
;; Your program must work in a single pass over the input n.
;; Problem 2 (3 points)
;; Same problem, done iteratively.
;; FOR BOTH PROBLEMS: NO VECTORS, NO LISTS, NO STRINGS, NO ASSIGNMENT ...
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