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   Software Engineering I
   iEx5_pred

   Predicate tests for the iEx5 assignment.
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(in-package "ACL2")
(include-book "testing" :dir :teachpacks)
(include-book "doublecheck" :dir :teachpacks)
(include-book "iEx5")

; Removed all tests from iEx4 to keep this clean
; Only testing new functions

(defproperty getresults-nil=string-append-prefix-postfix-tst :repeat 100
  (prefix :value (random-string)
    postfix :value (random-string))
  (implies (and (stringp prefix) (stringp postfix))
    (string-equal (getresults nil prefix postfix)
      (string-append prefix postfix))))
)

(defproperty getresults-results-proportional-to-input-tst :repeat 100
  (n :value (random-between 1 200)
    nodes :value (random-list-of
      (mv
        "Result"
        (list
          (mv "SectionLabel" "A")
          (mv "PairID-NS" "3")
          (mv "PairID-EW" "5")
        )
        (list
          (mv "TotalScore"
            (list (mv "Direction" "N-S"))
            (list (mv 'text nil "5.0")))
          (mv "MatchpointsNS" nil (list (mv 'text nil "120.0")))
          (mv "MatchpointsEW" nil (list (mv 'text nil "120.0")))
        )
      )
    :size n))
  (implies (> n 0)
    (< (length (getresults (cdr nodes) "" ""))
      (length (getresults nodes "" ""))))
)

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