ITERABLE Instructor model new_cursor * INSTRUCTOR DICTIONARY TESTS feature -- Add tests make feature -- Setup d: DICTIONARY [STRING_8, INTEGER_32] 1.0 DICTIONARY[V -> attached ANY, K -> attached ANY] teardown 1 1 1 1 feature -- Tests 1 . create make 1 test_model: BOOLEAN 1.1 test get keys: BOOLEAN feature model: FUN [K, V] test iterable dictionary: BOOLEAN 1.1 lodel: FUN[K, v]
ensure
consistent model_imp_counts: model.count ~ count
consistent model_imp_contents: across
...l | ...l Result.count as j 1.1 test iteration cursor: BOOLEAN 1.1 test remove: BOOLEAN all Result.has (create {PAIR [K, V]}.make (keys [j.item], values test_setup: BOOLEAN 1.1 [j.item])) end dli end 1.1 feature -- Commands add_entry (v: V; k: K) require 1.1 require non_existing_in_model: not model.domain.has (k) ensure 1.1 1.1 entry added to model: model ~ old model.extended (create {PAIR [K, V]}, make from tuple ([k, V])) 1.1 remove_entry (k: K)
require
existing_in_model: True
ensure ensure entry removed from model: model ~ (old model.deep twin).domain subtracted by (k) isure empty_model: model.is_empty object_equality_for_keys: keys.object_comparison object_equality_for_values: values.object_comparison feature count: INTEGER_32 correct model result: model.count ~ count get_keys (v: V): ITERABLE [K] correct_model_result: across ...Result as j all model.range_restricted_by (v).domain.has (j.item) get_value (k: K): detachable V
ensure
case_of_void_result: not model.domain.has (k) implies Result ~ Void
... case_of_non_void_result: model.domain.has (k) implies Result /~ new_cursor: ITERATION_CURSOR [TUPLE [V, K]] invariant
 consistent_keys_values_counts: keys.count = values.count
 consistent_imp_adt_counts: keys.count = count end -- class DICTIONARY

ITERATION CURSOR [G]*

feature -- Access item: G -- Item at current cursor position. require
valid position: not after feature -- Cursor movement -- Move to next position. require
valid position: not after

feature -- Status report after: BOOLEAN

-- Are there no more items to iterate over?

TUPLE_ITERATION_CURSOR [V,K]

make feature

make (va: ARRAY [V]; II: LINKED_LIST [K])

feature --Features after: BOOLEAN

- Are there no more items to iterate over?

-- Move to next position.

item: TUPLE [V, K]

-- Item at current cursor position.

consitent_data_structures: values.lower = keys.Lower and values.count = keys.count

end -- class TUPLE_ITERATION_CURSOR