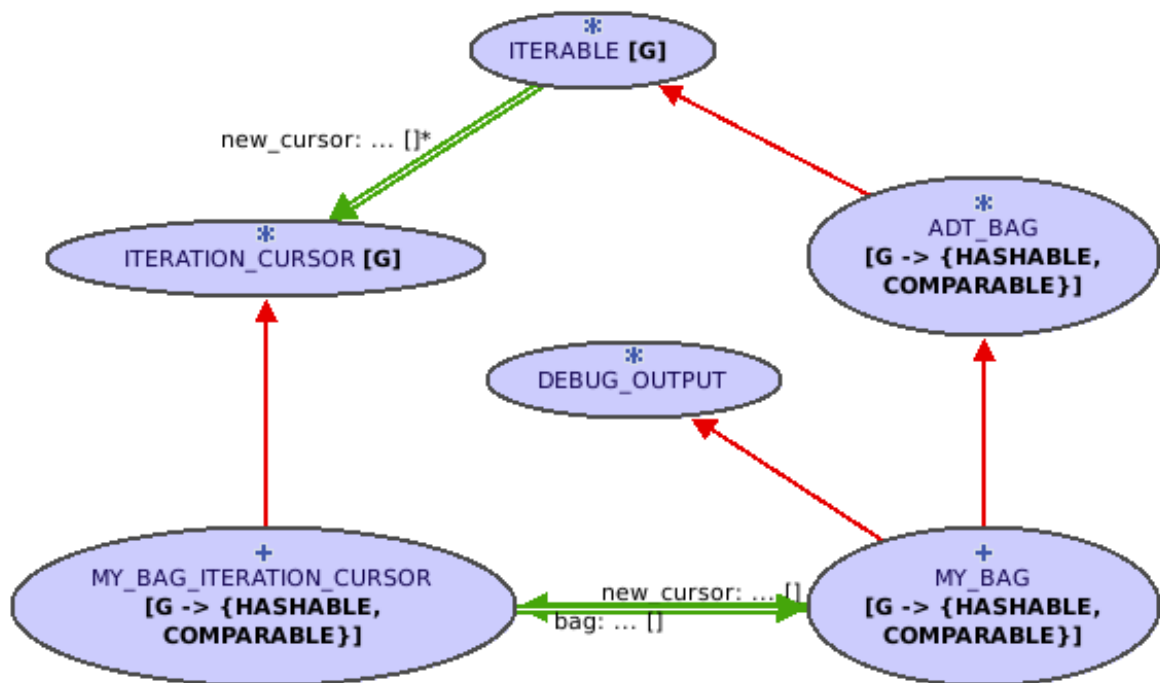**EECS3311-LAB4-BAG**

Name: Mikhail Gindin
Login: mikegin
I completed the whole lab: YES
I affirm that all this work in the lab is my own.

IDE Generated BON:

Manual BON:

MY_BAG_ITERATION_CURSOR
+
[G → {HASHABLE, COMPARABLE}]

new_cursor:...[]
bag:...[]

+
MY_BAG

*
DEBUG_OUTPUT

*
ITERATION_CURSOR[G]

new_cursor: ...[]*

*
ITERABLE[G]

*
ADT_BAG

bag_equal alias "|=|" (other: like Current): BOOLEAN

count: BOOLEAN

domain: ARRAY[G]

occurrences(key: G): BOOLEAN

is_subset_of(other: like Current): BOOLEAN

extend(a_key: G; a_quantity: INTEGER)

remove(a_key: G; a_quantity: INTEGER)

invariant
  consistent_count:
          count = domain.count
  nonnegative_items:
          ∀ i ∈ domain : occurrences(i) > 0
  reflexivity:
           Current |=| Current