```
BagBasics (E, C): trait
  % Essential bag operators
  includes Integer
  introduces
    { }: → C
    insert: E, C → C
    count: E, C → Int
  asserts
    C generated by { }, insert
    C partitioned by count
    ∀ b: C, e, e1, e2: E
      count(e, { }) == 0;
      count(e1, insert(e2, b)) ==
        count(e1, b) + (if e1 = e2 then 1 else 0)
  implies
    InsertGenerated ({ } for empty)
    ∀ e: E, b: C
      insert(e, b) ≠ { };
      count(e, b) ≥ 0
    converts count
```