```
Stack (E, C): trait
  % Common LIFO operators
  includes StackBasics, Integer
  introduces
    count: E, C → Int
    __ ∈ __: E, C → Bool
    size: C → Int
    isEmpty: C → Bool
  asserts
    ∀ e: E, stk: C
      size(empty) == 0;
      size(push(e, stk)) == size(stk) + 1;
      isEmpty(stk) == stk = empty
  implies
    Container (push for insert, top for head,
               pop for tail)
    C partitioned by top, pop, isEmpty
    ∀ stk: C
      size(stk) ≥ 0
   converts top, pop, count, ∈, size, isEmpty
     exempting top(empty), pop(empty)
```