Compute Invoice Total

Input   Invoice inv
Modifies   inv.total, inv.ord.cust.creditLimit

inv.ord.cust.balanceType = None $\wedge$
inv.ord.Total > 0

$\rightarrow$

inv.total = inv.ord.total

inv.ord.cust.balanceType = Credit $\wedge$
inv.ord.cust.creditLimit $\geq$ inv.ord.total

$\rightarrow$

inv.total = 0 $\wedge$
inv.ord.cust.creditLimit =
        inv.ord.cust.creditLimit − inv.ord.total

inv.ord.cust.balanceType = Credit $\wedge$
inv.ord.cust.creditLimit < inv.ord.total

$\rightarrow$

inv.ord.cust.creditLimit = 0 $\wedge$
inv.total = inv.ord.total −
        inv.ord.cust.creditLimit