[*ORANGE, PLUM*]

FloridaFruits

$roranges : \mathbb{P}\ ORANGE$
$rplums : \mathbb{P}\ PLUM$
$orangeprice : \mathbb{N}$
$plumprice : \mathbb{N}$

InitFloridaFruits

FloridaFruits

$roranges = \varnothing$
$rplums = \varnothing$
$orangeprice = 3$
$plumprice = 2$

FestivalFoods

$toranges : \mathbb{P}\ ORANGE$
$tplums : \mathbb{P}\ PLUM$

InitFestivalFoods

FestivalFoods

$toranges = \varnothing$
$tplums = \varnothing$

BuyOranges

$\Delta FloridaFruits$
$\Delta FestivalFoods$
$oranges?: \mathbb{P}\ ORANGE$
$price!: \mathbb{N}$

$oranges? \subseteq roranges$
$roranges' = roranges \setminus oranges?$
$toranges' = toranges \cup oranges?$
$price! = orangeprice * \# oranges?$

BuyPlums

$\Delta FloridaFruits$
$\Delta FestivalFoods$
$plums?: \mathbb{P}\ PLUM$
$price!: \mathbb{N}$

$plums? \subseteq rplums$
$rplums' = rplums \setminus plums?$
$tplums' = tplums \cup plums?$
$price! = plumprice * \# plums?$

SetOrangePrice

$\Delta FloridaFruits$
$price?: \mathbb{N}$

$orangeprice' = price?$

SetPlumPrice

$\Delta FloridaFruits$
$price!: \mathbb{N}$

$plumprice' = price!$