Formula ✔

precondition	statement	postcondition
{\original_pre}	statement	{\original_post}

Variables
LOCAL boolean result
RETURN boolean ret
PARAM Person p
PRIVATE int maximumWeight

Composition ✔

precondition	postcondition
{\original_pre}	{\original_post}

statement 1	intermediate condition	statement 2
statement1	{result = FALSE & this.old_contains = this.persons.contains(p)}	statement2

Global Conditions
Person p non-null
this.persons.elements != null
this.weight >= 0

Statement1

precondition	statement	postcondition ✔
{\original_pre}	result = false; this.old_contains = this.persons.contains(p);	{result = FALSE & this.old_contains = this.persons.contains(p)}

Composition ✔

precondition	postcondition
{result = FALSE & this.old_contains = this.persons.contains(p)}	{\original_post}

statement 1	intermediate condition	statement 2
statement1	{\original_post}	statement2

ReturnStatement1

precondition	ReturnStatement	postcondition ✔
{\original_post}	result;	{\original_post}

SelectionStatement1

SelectionStatement IF..FI ✔	
guards	
this.old_contains = TRUE	this.old_contains = FALSE
precondition	
{modifiable(\nothing);(result = FALSE & this.old_contains = this.persons.contains(p)) & (this.old_contains = TRUE)}	{modifiable(\nothing);(result = FALSE & this.old_contains = this.persons.contains(p)) & (this.old_contains = FALSE)}
statements	
statement	statement
postcondition	
{\original_post}	

Statement2

precondition	statement	postcondition ✔
{modifiable(\nothing); (result = FALSE & this.old_contains = this.persons.contains(p)) & (this.old_contains = TRUE)}	this.original(p); this.weight = this.weight - p.getWeight(); result = true;	{\original_post}

SkipStatement1

Skip ✔	
precondition	**postcondition**
{modifiable(\nothing);(result = FALSE & this.old_contains = this.persons.contains(p)) & (this.old_contains = FALSE)}	{\original_post}