

Formula		
precondition	statement	postcondition
{this.currentHeading >= 0 & this.currentHeading <= 1}	statement	{reversed(this.currentHeading, \result)}

Composition		
precondition		postcondition
{this.currentHeading >= 0 & this.currentHeading <= 1}		{reversed(this.currentHeading, \result)}
statement 1	intermediate condition	statement 2
statement1	{result = this.currentHeading}	statement2

Variables
PRIVATE int weight
LOCAL int result
RETURN int ret
PRIVATE int old_weight
PRIVATE boolean old_contains
PRIVATE boolean blocked
PRIVATE ArrayList persons
PRIVATE Environment env
PRIVATE int doors
PRIVATE int currentFloorID
PRIVATE int currentHeading
PRIVATE boolean verbose
PUBLIC boolean[] floorButto...
PRIVATE int old_currentFloor...

Global Conditions
this.currentHeading >= 0
this.currentHeading <= 1

Statement1

precondition	statement	postcondition
{this.currentHeadin g >= 0 & this.currentHeading <= 1}	result = this.currentHeading;	{result = this.currentHeading }

SelectionStatement1

SelectionStatement IF..FI	
guards	
this.currentHeading = 0	this.currentHeading = 1
precondition	
{modifiable(\nothing);(result = this.currentHeading) & (this.currentHeading = 0)}	{modifiable(\nothing);(result = this.currentHeading) & (this.currentHeading = 1)}
statements	
statement	statement
postcondition	
{reversed(this.currentHeading, result)}	

Composition		
precondition		postcondition
{result = this.currentHeading}		{reversed(this.currentHeading, \result)}
statement 1	intermediate condition	statement 2
statement1	{reversed(this.currentHeading, result)}	statement2

ReturnStatement1

precondition	ReturnStatement	postcondition
{reversed(this.currentHeading, result)}	result;	{reversed(this.currentHeading, \result)}

Statement3

precondition	statement	postcondition
{modifiable(\nothing);(result = this.currentHeading) & (this.currentHeading = 1)}	result = 0;	{reversed(this.currentHeading, result)}

Statement2

precondition	statement	postcondition
{modifiable(\nothing);(result = this.currentHeading) & (this.currentHeading = 0)}	result = 1;	{reversed(this.currentHeading, result)}