Formula												Variables	
precondition stateme								postcondition				LOCAL boolean result RETURN boolean ret	
								{(this.isExecutiveFloorCalling() = TRUE & this.isExecutiveFloor(this.currentFloorID) = F				PRIVATE int executiveFloor	
								-> \result = FALSE			-/		
{this.currentFloorID >= 0}					statement		& (this.isExecutiveFloorCalling() = FALSE   this.isExecutiveFloor(this.currentFloorID) = TRUE)						
								> \result =					
A A							this.ori	ginai_stop	opRequestedAtCurrentFloor()}				
					C	ompositi	ion					~	
			precondition	1					noct	condition			
precondition							postcondition {(this.isExecutiveFloorCalling() = TRUE & this.isExecutiveFloor(this.currentFloorID) = FALSE)						
{this.currentFloorID >= 0}							-> \result = FALSE & (this.isExecutiveFloorCalling() = FALSE   this.isExecutiveFloor(this.currentFloorID) = TRUE)						
							-> \result = this.original_stopRequestedAtCurrentFloor()}						
statement 1 int						nediate condition statement 2					ment 2		
		statement1			{re	LSE}					statement2		
Statement						result = FALSE}			Statementz				
Stateme	ent1	V								V			
precondi	li statement postcond Composition											~	
		postoonu											
{this.curren tFloorID	result = false;	{result = FALSE}			precondition				postcondition				
>= 0}	iaise,	[ALSE]				{(this.isExecutiveFloor(this surrent)							
					{result = FALSE}				this.isExecutiveFloor(this.currentFloorID) = FALSE) -> \result = FALSE & (this.isExecutiveFloorCalling() = FALSE				
								this	this.isExecutiveFloor(this.currentFloorID) = TRUE) -> \result = this.original_stopRequestedAtCurrentFloor()}				
							In A						
statement 1						intermediate condition {(this.isExecutiveFloorCalling() = TRUE &						statement 2	
						this.isExecutiveFloor(this.current			ntFloorID) =				
statement1						FALSE) -> result = FALSE  & (this.isExecutiveFloorCalling() = FALSE   statement2  this.isExecutiveFloor(this.currentFloorID) =  TRUE) -> result =					statement2		
						this.original_stopRequestedAtCurrentFloor()}							
SelectionStatement1 $\bigvee$							RepetitionStatement1				4		
SelectionStatement IFFI							precondition		ReturnS	tatement		postcondition	
guards							= TRUE &					{(this.isExecutiveFloorCalling() = TRUE &	
this.isExecutiveFloorCalling() = TRUE & this.isExecutiveFloorCalling() = FALSE   this.isExecutiveFloor(this.currentFloorID) = this.isExecutiveFloor(this.currentFloorID) =							this.isExecutiveFloor(this.cu FloorID) = FALSE) -> resu					his.is Executive Floor (this.curren	
FALSE TRUE						FALSE &						FloorID) = FALSE) -> \result = FALSE	
precondition						(this.isExecutiveFloorCalling() =			result;			દ્રે (this.isExecutiveFloorCalling( = FALSE	
{modifiable(\nothing);(result = FALSE) & {modifiable(\nothing);(result = FALSE) & (thin in Figure 1); (result = FALSE) & (thin in Figure 2); (result = FALSE) & (thin in Figur							FALSE   cutiveFloor(this	s.current				his.is Executive Floor (this.curren	
(this.isExecutiveFloorCalling() = TRUE & (this.isExecutiveFloorCalling() = FALSE   this.isExecutiveFloor(this.currentFloorID)						FloorID	orID) = TRUE) -> result =					FloorID) = TRUE) -> \result = his.original_stopRequestedAt(	
= FALSE)} = TRUE)}							nis.original_stopRequestedAtC urrentFloor()}						
			statements			Stater	ment2						
statement statement							precondition		statement			postcondition	
Statement					>							= TRUE &	
postcondition							able(\nothing);(	result =				his.isExecutiveFloor(this.curren FloorID) = FALSE) -> result =	
{(this.isExecutiveFloorCalling() = TRUE & this.isExecutiveFloor(this.currentFloorID) =							FALSE) & (this.isExecutiveFloorCalling() =				FALSE &		
FALSE) -> result = FALSE & (this.isExecutiveFloorCalling() = FALSE   this.isExecutiveFloor(this.currentFloorID)							FALSE		result = true;		(	this.isExecutiveFloorCalling() =	
=	TRUE) -> re	sult = this.ori	iginal_stopRequ	estedAt(	CurrentFloor()}		cutiveFloor(this oorID) = TRUE)				t	FALSE   his.isExecutiveFloor(this.curren	
												FloorID) = TRUE) -> result =	
SkipStat	tement1	L			7						t	his.original_stopRequestedAt(	
					Skip						~		
			precondition			postcondition							
(	ioble (	ing)./sec.de	EALCE) O. (ALC.)	-Eve	roEloorCollineA TDUE 0		nis.is Executive Flo	oorCalling			loc	or(this.currentFloorID) = FALSE	
{modif		_	FALSE) & (this.is loor(this.current		reFloorCalling() = TRUE & = FALSE)}		& (this.isExecut	tiveFloorC		sult = FALSE E   this.isExecu	tive	eFloor(this.currentFloorID) =	
							TRU	E) -> resu	lt = this.origina	al_stopRequest	ed	AtCurrentFloor()}	