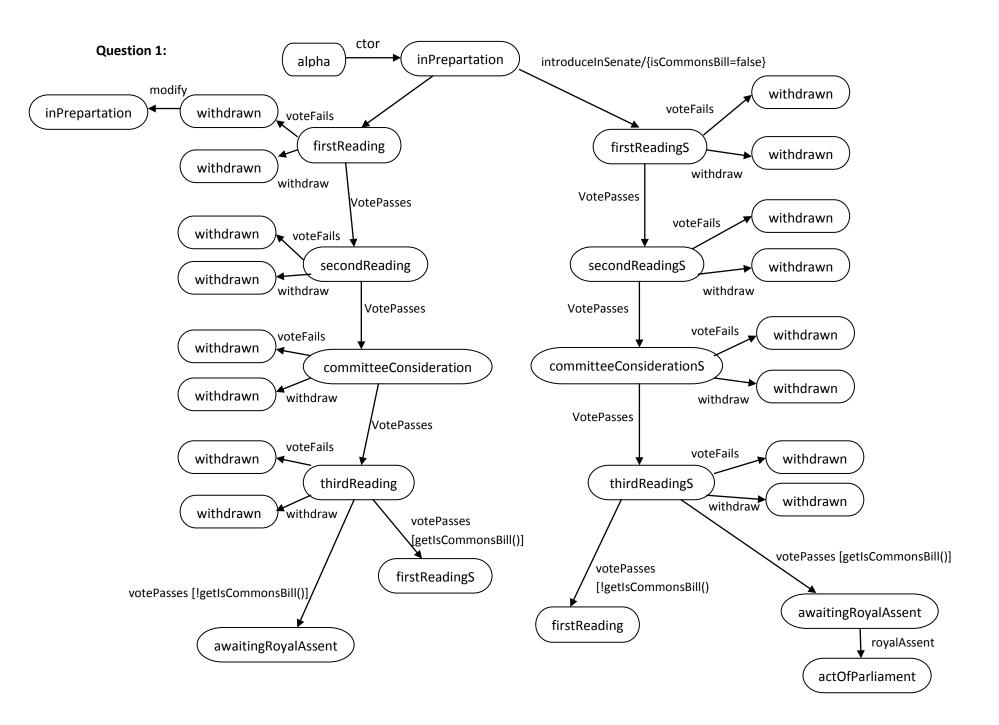
#### ECSE 429 – Software Validation – Assignment 2

#### Part 0:

Nhat-Quang Dao – 260457711 – responsible for question 4, 5, 6, 7

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#### Question 2:

The sneak paths for the Bill class based on the state machine provided are:

For the state **inPreparation**, the possible inputs that are legal and unspecified for the state are:

- votePasses
- voteFails
- modify
- withdraw
- royalAssent

For the state firstReading, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **secondReading**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **committeeConsideration**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **thirdReading**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state withdraw, the possible inputs that are legal and unspecified for the state are:

- votePasses
- voteFails
- withdraw
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **firstReadingS**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **secondReadingS**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **committeeConsiderationS**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **thirdReadingS**, the possible inputs that are legal and unspecified for the state are:

- modify
- introduceInHouse
- introduceInSenate
- royalAssent

For the state **awaitingRoyalAssent**, the possible inputs that are legal and unspecified for the state are:

- votePasses
- voteFails
- modify
- withdraw
- introduceInHouse
- introduceInSenate

For the state **awaitingRoyalAssent**, the possible inputs that are legal and unspecified for the state are:

- votePasses
- voteFails
- modify
- withdraw
- introduceInHouse
- introduceInSenate
- royalAssent

Note: Although voteDenied() is a valid method in the code, it was not defined on the state transition diagram and therefore it is treated as an invalid input to the system. As a result, it is not included as a sneak path and thus not used in the sneak path test cases.

#### Question 3:

Test Case # 1 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
1.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
1.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
1.3	firstReading	voteFails()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	
1.4	withdrawn	modify()	-	billState=inPreparation	inPreparation
				wasEventProcessed=true	

Test Case # 2 - Conformance Test - Objects Needed: billStateInHouse, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
2.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
2.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
2.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	

	wasEventProcessed=true	

Test Case # 3 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
3.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
3.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
3.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
3.4	secondReading	voteFails()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

Test Case # 4 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
4.1	1	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
4.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
4.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
4.4	secondReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	

wasEventProcessed=true			
l l wasEventProcessed=true			i
		wasEventProcessed=true	i
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### Test Case # 5 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
5.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
5.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
5.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
5.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
5.5	committeeConsideration	voteFails()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

### Test Case # 6 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
6.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
6.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
6.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	

6.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
6.5	committeeConsideration	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

#### Test Case # 7 - Conformance Test - Objects Needed: billStateInHouse, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
7.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
7.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
7.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
7.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
7.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
7.6	thirdReading	voteFails()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				was Event Processed = true	

## Test Case #8 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
8.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	

				billStateInSenate=null	
8.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
8.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
8.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
8.5	committee Consideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
8.6	thirdReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

# Test Case # 9 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
9.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
9.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
9.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
9.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
9.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
9.6	thirdReading	votePasses()	getIsCommonsBill()	billStateInHouseOfCommons=null	awaitingRoyalAssent
			= false	billState=awaitingRoyalAssent	
				wasEventProcessed=true	

Test Case # 10 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
10.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
10.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
10.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
10.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
10.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
10.6	thirdReading	votePasses()	getIsCommonsBill	billStateInHouseOfCommons=null	firstReadingS
			= true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	

Test Case # 11 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
11.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
11.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
	-			billState=inSenate	
				billStateInSenate=firstReadingS	

				wasEventProcessed=true	
11.3	firstReadingS	voteFails()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

### Test Case # 12 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
12.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
12.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
12.3	firstReadingS	withdraw()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

# Test Case # 13 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
13.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
13.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
13.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS

				wasEventProcessed=true	
13.4	secondReadingS	voteFails()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

#### Test Case # 14 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
14.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
14.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
14.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
14.4	secondReadingS	withdraw()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

### Test Case # 15 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
15.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
15.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	

				wasEventProcessed=true	
15.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
15.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
15.5	committeeConsiderationS	voteFails()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

#### Test Case # 16 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
16.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
16.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
16.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
16.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
16.5	committeeConsiderationS	withdraw()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

#### Test Case # 17 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
17.1	-	constructor	-	isCommonsBill=true	inPreparation

				hillCtato-inDroparation	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
17.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
17.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
17.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
17.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				isCommonsBill=true	
				wasEventProcessed=true	
17.6	thirdReadingS	voteFails()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

# Test Case # 18 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
18.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
18.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
18.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
18.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	

18.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				isCommonsBill=true	
				wasEventProcessed=true	
18.6	thirdReadingS	withdraw()	-	billStateInSenate=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	

### Test Case # 19 - Conformance Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
19.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
19.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
19.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
19.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
19.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
19.6	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			=true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
19.7	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	

Test Case # 20 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
20.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
20.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
20.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
20.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
20.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
20.6	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	firstReading
			=false	billState=inHouseOfCommons	
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	

Test Case # 21 - Conformance Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
21.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
21.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
21.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReadin	secondReading

			g	
			wasEventProcessed=true	
secondReading	votePasses()	-	billStateInHouseOfCommons=committeeCo	committeeConsideration
			nsideration	
			wasEventProcessed=true	
committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
n			wasEventProcessed=true	
thirdReading	votePasses()	getIsCommonsBill	billStateInHouseOfCommons=null	firstReadingS
		= true	billState=inSenate	
			billStateInSenate=firstReadingS	
			wasEventProcessed=true	
firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
			wasEventProcessed=true	
secondReadingS	votePasses()	-	billStateInSenate=committeeConsideration	committeeConsiderationS
			S	
			wasEventProcessed=true	
committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
nS			wasEventProcessed=true	
thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
		=true	billState=awaitingRoyalAssent	
			wasEventProcessed=true	
awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
			wasEventProcessed=true	
	committeeConsideratio n thirdReading  firstReadingS secondReadingS  committeeConsideratio nS thirdReadingS	committeeConsideratio n votePasses()  thirdReading votePasses()  firstReadingS votePasses()  secondReadingS votePasses()  committeeConsideratio nS thirdReadingS votePasses()	committeeConsideratio n votePasses() - getIsCommonsBill = true  firstReadingS votePasses() - secondReadingS votePasses() - committeeConsideratio nS thirdReadingS votePasses() getIsCommonsBill() = true	secondReading votePasses() - billStateInHouseOfCommons=committeeConsideration wasEventProcessed=true  committeeConsideratio n votePasses() - billStateInHouseOfCommons=thirdReading wasEventProcessed=true  thirdReading votePasses() getIsCommonsBill billStateInHouseOfCommons=null billStateInSenate=firstReadingS wasEventProcessed=true  firstReadingS votePasses() - billStateInSenate=secondReadingS wasEventProcessed=true  secondReadingS votePasses() - billStateInSenate=committeeConsideration S wasEventProcessed=true  committeeConsideratio votePasses() - billStateInSenate=thirdReadingS wasEventProcessed=true  thirdReadingS votePasses() getIsCommonsBill() billStateInSenate=null billState=awaitingRoyalAssent wasEventProcessed=true  awaitingRoyalAssent royalAssent() - billState=actOfParliament

# Test Case # 22 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
22.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
22.2	inPreparation	votePasses()	-	Ignored	inPreparation
				(isCommonBill=true	

	billState=inPreparation	
	billStateInHouseOfCommons=null	
	billStateInSenate=null)	

# Test Case # 23 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
23.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
23.2	inPreparation	voteFails()	-	ignored	inPreparation
				(isCommonBill=true	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null)	

#### Test Case # 24 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
24.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
24.2	inPreparation	modify()	-	ignored	inPreparation
				(isCommonBill=true	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null)	

Test Case # 25 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
25.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
25.2	inPreparation	withdraw()	-	ignored	inPreparation
				(isCommonBill=true	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
				wasEventProcessed=false)	

#### Test Case # 26 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
26.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
26.2	inPreparation	royalAssent()	-	ignored	inPreparation
				(isCommonBill=true	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
				was Event Processed = false)	

#### Test Case # 27 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
27.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	

				billStateInSenate=null	
27.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				was Event Processed = true	
27.3	firstReading	modify()	-	ignored	firstReading
				(billState=inHouseOfCommons	
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=false)	

#### Test Case # 28 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
28.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
28.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
28.3	firstReading	introduceInHouse()	-	ignored	firstReading
				(billState=inHouseOfCommons	
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=false)	

### Test Case # 29 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
29.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
29.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading

				billStateInHouseOfCommons=firstReading wasEventProcessed=true	
29.3	firstReading	introduceInSenate()	-	ignored (billState=inHouseOfCommons billStateInHouseOfCommons=firstReading wasEventProcessed=false)	firstReading

### Test Case # 30 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
30.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
30.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				was Event Processed = true	
30.3	firstReading	royalAssent()	-	ignored	firstReading
				(billState=inHouseOfCommons	
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=false)	

# Test Case # 31 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
31.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
31.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
	·			billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	

31.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
31.4	secondReading	modify()	-	Ignored	secondReading
				(billStateInHouseOfCommons=secondReading	
				was Event Processed = false)	

### Test Case # 32 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
32.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
32.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
32.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
32.4	secondReading	introduceInHouse()	-	Ignored	secondReading
				(billStateInHouseOfCommons=secondReading	
				wasEventProcessed=false)	

# Test Case # 33 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
33.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
33.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	

33.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
33.4	secondReading	introduceInSenate()	-	Ignored	secondReading
				(billStateInHouseOfCommons=secondReading	
				wasEventProcessed=false)	

### Test Case # 34 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
34.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
34.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
34.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
34.4	secondReading	royalAssent()	-	Ignored	secondReading
				(billStateInHouseOfCommons=secondReading	
				wasEventProcessed=false)	

#### Test Case # 35 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
35.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
35.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	

35.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
35.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
35.5	committeeConsideration	modify()	-	Ignored	committeeConsideration
				(billStateInHouseOfCommons=committeeConsideration	
				was Event Processed = false)	

### Test Case # 36 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
36.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
36.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
36.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
36.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
36.5	committeeConsideration	introduceInHouse()	-	Ignored	committeeConsideration
				(billStateInHouseOfCommons=committeeConsideration	
				was Event Processed = false)	

# Test Case # 37 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
37.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	

				billStateInSenate=null	
37.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
37.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
37.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
37.5	committeeConsideration	introduceInSenate()	-	Ignored	committeeConsideration
				(billStateInHouseOfCommons=committeeConsideration	
				wasEventProcessed=false)	

### Test Case # 38 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
38.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
38.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
38.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
38.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
38.5	committeeConsideration	royalAssent()	-	Ignored	committeeConsideration
				(billStateInHouseOfCommons=committeeConsideration	
				was Event Processed = false)	

Test Case # 39 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
39.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
39.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
39.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
39.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
39.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
39.6	thirdReading	modify()	-	Ignored	thirdReading
				(billStateInHouseOfCommons=thirdReading	
				was Event Processed = false)	

# Test Case # 40 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
40.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
40.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
40.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
40.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
40.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading

				was Event Processed = true	
40.6	thirdReading	introduceInHouse()	-	Ignored	thirdReading
				(billStateInHouseOfCommons=thirdReading	
				was Event Processed = false)	

### Test Case # 41 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
41.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
41.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
41.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
41.4	secondReading	votePasses()	1	bill State In House Of Commons = committee Consideration	committeeConsideration
				wasEventProcessed=true	
41.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
41.6	thirdReading	introduceInSenate()	-	Ignored	thirdReading
				(billStateInHouseOfCommons=thirdReading	
				wasEventProcessed=false)	

### Test Case # 42 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
42.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	

42.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
42.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
42.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsideration	committeeConsideration
				wasEventProcessed=true	
42.5	committeeConsideration	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
				wasEventProcessed=true	
42.6	thirdReading	royalAssent()	-	Ignored	thirdReading
				(billStateInHouseOfCommons=thirdReading	
				was Event Processed = false)	

# Test Case # 43 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
43.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
43.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				was Event Processed = true	
43.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				was Event Processed = true	
43.4	withdrawn	votePasses()	-	- Ignored	
				(billStateInHouseOfCommons=null	
				billState=withdrawn	
				was Event Processed = false)	

Test Case # 44 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
44.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
44.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
44.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	
44.4	withdrawn	voteFails()	-	Ignored	withdrawn
				(billStateInHouseOfCommons=null	
				billState=withdrawn	
				wasEventProcessed=false)	

Test Case # 45 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
45.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
45.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
45.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	
45.4	withdrawn	withdraw()	-	Ignored	withdrawn
				(bill State In House Of Commons = null	

		billState=withdrawn	
		wasEventProcessed=false)	

### Test Case # 46 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
46.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
46.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
46.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	
46.4	withdrawn	introduceInHouse()	-	Ignored	withdrawn
				(billStateInHouseOfCommons=null	
				billState=withdrawn	
				wasEventProcessed=false)	

### Test Case # 47 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
47.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
47.2	inPreparation	introduceInHouse()	-	- billState=inHouseOfCommons	
				billStateInHouseOfCommons=firstReading	
				was Event Processed = true	
47.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn

				billState=withdrawn wasEventProcessed=true	
47.4	withdrawn	introduceInSenate()	1	Ignored (billStateInHouseOfCommons=null billState=withdrawn wasEventProcessed=false)	withdrawn

### Test Case # 48 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
48.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
48.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
48.3	firstReading	withdraw()	-	billStateInHouseOfCommons=null	withdrawn
				billState=withdrawn	
				wasEventProcessed=true	
48.4	withdrawn	royalAssent()	-	Ignored	withdrawn
				(billStateInHouseOfCommons=null	
				billState=withdrawn	
				wasEventProcessed=false)	

# Test Case # 49 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
49.1		constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	

49.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
49.3	firstReadingS	modify()	-	Ignored	firstReadingS
				(isCommonsBill=false	
				billState=inSenate	
				billStateInSenate=firstReadingS	
				was Event Processed = false)	

### Test Case # 50 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
50.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
50.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
50.3	firstReadingS	introduceInHouse()	-	Ignored	firstReadingS
				(isCommonsBill=false	
				billState=inSenate	
				billStateInSenate=firstReadingS	
				was Event Processed = false)	

#### Test Case # 51 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
51.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	

				billStateInHouseOfCommons=null	
				billStateInSenate=null	
51.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
51.3	firstReadingS	introduceInSenate()	-	Ignored	firstReadingS
				(isCommonsBill=false	
				billState=inSenate	
				billStateInSenate=firstReadingS	
				was Event Processed = false)	

# Test Case # 52 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
52.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
52.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
52.3	firstReadingS	royalAssent()	-	Ignored	firstReadingS
				(isCommonsBill=false	
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=false)	

Test Case # 53 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
53.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
53.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
53.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
53.4	secondReadingS	modify()	-	Ignored	secondReadingS
				(billStateInSenate=secondReadingS	
				wasEventProcessed=false)	

Test Case # 54 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
54.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
54.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
54.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
54.4	secondReadingS	introduceInHouse()	-	Ignored	secondReadingS
				(billStateInSenate=secondReadingS	
				was Event Processed = false)	

Test Case # 55 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
55.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
55.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
55.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
55.4	secondReadingS	introduceInSenate()	-	Ignored	secondReadingS
				(billStateInSenate=secondReadingS	
				wasEventProcessed=false)	

Test Case # 56 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
56.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
56.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
56.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
56.4	secondReadingS	royalAssent()	-	Ignored	secondReadingS
				(billStateInSenate=secondReadingS	
				was Event Processed = false)	

Test Case # 57 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
57.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
57.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
57.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
57.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
57.5	committeeConsiderationS	modify()	-	Ignored	committeeConsiderationS
				(billStateInSenate=committeeConsiderationS	
				was Event Processed = false)	

Test Case # 58 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
58.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
58.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
58.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
58.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS

				wasEventProcessed=true	
58.5	committeeConsiderationS	introduceInHouse()	-	Ignored	committeeConsiderationS
				(billStateInSenate=committeeConsiderationS	
				was Event Processed = false)	

## Test Case # 59 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
59.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
59.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
59.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
59.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
59.5	committeeConsiderationS	introduceInSenate()	-	Ignored	committeeConsiderationS
				(billStateInSenate=committeeConsiderationS	
				wasEventProcessed=false)	

## Test Case # 60 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
60.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
60.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS

				billState=inSenate billStateInSenate=firstReadingS wasEventProcessed=true	
60.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS wasEventProcessed=true	secondReadingS
60.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS wasEventProcessed=true	committeeConsiderationS
60.5	committeeConsiderationS	royal Assent ()	-	Ignored (billStateInSenate=committeeConsiderationS wasEventProcessed=false)	committeeConsiderationS

## Test Case # 61 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
61.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
61.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
61.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
61.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
61.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
61.6	thirdReadingS	modify()	-	Ignored	thirdReadingS
				(billStateInSenate=thirdReadingS	
				was Event Processed = false)	

Test Case # 62 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
62.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
62.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
62.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
62.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
62.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
62.6	thirdReadingS	introduceInHouse()	-	Ignored	thirdReadingS
				(billStateInSenate=thirdReadingS	
				was Event Processed = false)	

# Test Case # 63 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
63.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
63.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
63.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
63.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS

				wasEventProcessed=true	
63.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
63.6	thirdReadingS	introduceInSenate()	-	Ignored	thirdReadingS
				(billStateInSenate=thirdReadingS	
				was Event Processed = false)	

## Test Case # 64 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
64.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
64.2	inPreparation	introduceInSenate()	-	isCommonsBill=false	firstReadingS
				billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
64.3	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
64.4	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderationS
				wasEventProcessed=true	
64.5	committeeConsiderationS	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
				wasEventProcessed=true	
64.6	thirdReadingS	royalAssent()	-	Ignored	thirdReadingS
				(billStateInSenate=thirdReadingS	
				was Event Processed = false)	

## Test Case # 65 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
65.1	-	constructor	-	isCommonsBill=true	inPreparation

				billState=inPreparation billStateInHouseOfCommons=null	
				billStateInSenate=null	
65.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
65.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
65.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
65.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
65.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
65.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
65.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
65.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	nS			wasEventProcessed=true	
65.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
65.11	awaitingRoyalAssent	modify()	-	Ignored	awaitingRoyalAssent
				(billStateInSenate=null	
				billState=awaitingRoyalAssent	
				was Event Processed = false)	

Test Case # 66 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
66.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
66.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
66.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
66.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
66.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
66.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
66.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
66.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
66.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	nS			wasEventProcessed=true	
66.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
66.11	awaitingRoyalAssent	voteFails()	-	Ignored	awaitingRoyalAssent
				(billStateInSenate=null	

		billState=awaitingRoyalAssent	
		was Event Processed = false)	

## Test Case # 67 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
67.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
67.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
67.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
67.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
67.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
67.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
67.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
67.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
67.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	nS			wasEventProcessed=true	
67.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	

67.11	awaitingRoyalAssent	votePasses()	-	Ignored	awaitingRoyalAssent
				(billStateInSenate=null	
				billState=awaitingRoyalAssent	
				wasEventProcessed=false)	

# Test Case # 68 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
68.1	-	Constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
68.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
68.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
68.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
68.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
68.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
68.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
68.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
68.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	nS			wasEventProcessed=true	
68.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent

			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
68.11	awaitingRoyalAssent	introduceInHouse()	-	Ignored	awaitingRoyalAssent
				(billStateInSenate=null	
				billState=awaitingRoyalAssent	
				was Event Processed = false)	

## Test Case # 69 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
69.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
69.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
69.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
69.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
69.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
69.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
69.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
69.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
69.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS

	nS			wasEventProcessed=true	
69.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
69.11	awaitingRoyalAssent	introduceToSenate(	-	Ignored	awaitingRoyalAssent
		)		(billStateInSenate=null	
				billState=awaitingRoyalAssent	
				wasEventProcessed=false)	

## Test Case # 70 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
70.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
70.2	inPreparation	introduceInHouse()	-	billState=inHouseOfCommons	firstReading
				billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
70.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
70.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
70.5	committeeConsideratio	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	n			wasEventProcessed=true	
70.6	thirdReading	votePasses()	getIsCommonsBill =	billStateInHouseOfCommons=null	firstReadingS
			true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
70.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
70.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati

				wasEventProcessed=true	onS
70.9	committeeConsideratio	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	nS			wasEventProcessed=true	
70.10	thirdReadingS	votePasses()	getIsCommonsBill()	billStateInSenate=null	awaitingRoyalAssent
			= true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
70.11	awaitingRoyalAssent	withdraw()	-	Ignored	awaitingRoyalAssent
				(billStateInSenate=null	
				billState=awaitingRoyalAssent	
				wasEventProcessed=false)	

## Test Case # 71 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
71.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
71.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
71.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
71.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
71.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			wasEventProcessed=true	
71.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
71.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS

				wasEventProcessed=true	
71.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
71.9	committeeConsiderat	votePasses()	1	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
71.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
71.11	awaitingRoyalAssent	royalAssent()	1	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	
71.12	actOfParliament	modify()	-	Ignored	actOfParliament
				(billState=actOfParliament	
				wasEventProcessed=false)	

## Test Case # 72 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
72.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
72.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
72.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
72.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
72.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			wasEventProcessed=true	
72.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	

				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
72.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
72.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
72.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
72.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
72.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	
72.12	actOfParliament	votePasses()	-	Ignored	actOfParliament
				(billState=actOfParliament	
				wasEventProcessed=false)	

## Test Case # 73 - Sneak Path Test - Objects Needed: billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
73.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
73.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
73.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
73.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
73.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading

	ion			wasEventProcessed=true	
73.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
73.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
73.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
73.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
73.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
73.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	
73.12	actOfParliament	voteFails()	-	Ignored	actOfParliament
				(billState=actOfParliament	
				wasEventProcessed=false)	

## Test Case # 74 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
74.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
74.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	
74.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
74.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati

				eration	on
				wasEventProcessed=true	
74.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			wasEventProcessed=true	
74.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
74.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
74.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
74.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
74.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
74.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	
74.12	actOfParliament	introduceInHous	-	Ignored	actOfParliament
		e()		(billState=actOfParliament	
				wasEventProcessed=false)	

## Test Case # 75 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
75.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	
75.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				wasEventProcessed=true	

75.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
75.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
75.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			wasEventProcessed=true	
75.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
75.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
75.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
75.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
75.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
75.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
				wasEventProcessed=true	
75.12	actOfParliament	introduceToSena	-	Ignored	actOfParliament
		te()		(billState=actOfParliament	
				wasEventProcessed=false)	

## Test Case # 76 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
76.1	-	constructor	-	isCommonsBill=true	inPreparation
				billState=inPreparation	
				billStateInHouseOfCommons=null	
				billStateInSenate=null	

76.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
	6 . 5 . 11	. 5 ()		wasEventProcessed=true	10 11
76.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
76.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
76.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			was Event Processed = true	
76.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
			II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
76.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
				wasEventProcessed=true	
76.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
				wasEventProcessed=true	onS
76.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS			wasEventProcessed=true	
76.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
			II() =true	billState=awaitingRoyalAssent	
				wasEventProcessed=true	
76.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
	5 ,	, , ,		wasEventProcessed=true	
76.12	actOfParliament	withdraw()	-	Ignored	actOfParliament
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		(billState=actOfParliament	
				wasEventProcessed=false)	

# Test Case # 77 - Sneak Path Test - Objects Needed: billState, billStateInHouse, billStateInSenate, isCommonsBill

ID	Start State	Event	Condition	Reaction	New State
77.1	-	constructor	-	isCommonsBill=true	inPreparation

				hillCtata inDuamentian	
				billState=inPreparation	
				billStateInHouseOfCommons=null	
		_		billStateInSenate=null	
77.2	inPreparation	introduceInHous	-	billState=inHouseOfCommons	firstReading
		e()		billStateInHouseOfCommons=firstReading	
				was Event Processed = true	
77.3	firstReading	votePasses()	-	billStateInHouseOfCommons=secondReading	secondReading
				wasEventProcessed=true	
77.4	secondReading	votePasses()	-	billStateInHouseOfCommons=committeeConsid	committeeConsiderati
				eration	on
				wasEventProcessed=true	
77.5	committeeConsiderat	votePasses()	-	billStateInHouseOfCommons=thirdReading	thirdReading
	ion			wasEventProcessed=true	
77.6	thirdReading	votePasses()	getIsCommonsBi	billStateInHouseOfCommons=null	firstReadingS
	•	.,	II = true	billState=inSenate	
				billStateInSenate=firstReadingS	
				wasEventProcessed=true	
77.7	firstReadingS	votePasses()	-	billStateInSenate=secondReadingS	secondReadingS
	0	· · ·		wasEventProcessed=true	
77.8	secondReadingS	votePasses()	-	billStateInSenate=committeeConsiderationS	committeeConsiderati
	0	.,		wasEventProcessed=true	onS
77.9	committeeConsiderat	votePasses()	-	billStateInSenate=thirdReadingS	thirdReadingS
	ionS	.,		wasEventProcessed=true	
77.10	thirdReadingS	votePasses()	getIsCommonsBi	billStateInSenate=null	awaitingRoyalAssent
	J	.,	II() =true	billState=awaitingRoyalAssent	,
			.,	wasEventProcessed=true	
77.11	awaitingRoyalAssent	royalAssent()	-	billState=actOfParliament	actOfParliament
	<i>,</i>	, , ,		wasEventProcessed=true	
77.12	actOfParliament	royalAssent()	-	Ignored	actOfParliament
		,		(billState=actOfParliament	
				wasEventProcessed=false)	

#### Question 4:

#### See source code

#### Question 5:

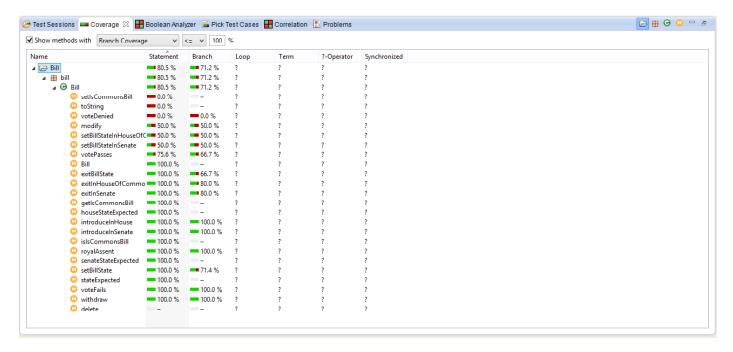
- Failed because voteFails leads to a different state (secondReading) than expected
- 2. Passed
- 3. Failed because voteFails leads to a different state (secondReading) than expected
- 4. Passed
- 5. Failed because voteFails leads to a different state (secondReading) than expected
- 6. Passed
- 7. Failed because voteFails leads to a different state (secondReading) than expected
- 8. Passed
- Failed because voteFails leads to a different state (secondReading) than expected
- 10. Passed
- 11. Passed
- 12. Passed
- 13. Passed
- 14. Passed
- 15. Passed
- 16. Passed
- 17. Passed
- 18. Passed
- 19. Passed

- 20. Failed because isCommonsBill is false, cannot access awaitingRoyalAssent
- 21. Passed
- 22. Passed
- 23. Passed
- 24. Passed
- 25. Passed
- 26. Passed
- 27. Passed
- 28. Passed
- 29. Passed
- 30. Passed
- 31. Passed
- 32. Passed
- 33. Passed
- 34. Passed
- 35. Passed
- 36. Passed
- 37. Passed
- 38. Passed
- 39. Passed
- 40. Passed
- 41. Passed
- 42. Passed
- 43. Passed

- 44. Passed
- 45. Passed
- 46. Passed
- 47. Passed
- 48. Passed
- 49. Passed
- 50. Passed
- 51. Passed
- 52. Passed
- 53. Passed
- 54. Passed
- 55. Passed
- 56. Passed
- 57. Passed
- 58. Passed
- 59. Passed
- 76. Passed
- 77. Passed

- 60. Passed
- 61. Passed
- 62. Passed
- 63. Passed
- 64. Passed
- 65. Passed
- 66. Passed
- 67. Passed
- 68. Passed
- 69. Passed
- 70. Passed
- 71. Passed
- 72. Passed
- 73. Passed
- 74. Passed
- 75. Passed

#### Branch coverage:



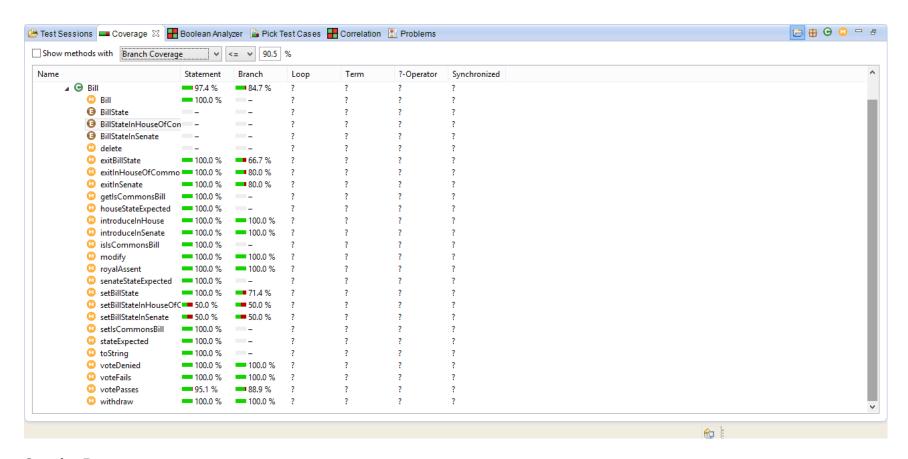
This is expected as the test cases only cover the public methods that are visible from outside the class. The state machine also does not specify all the branches that may be available in the control flow. Some transitions are specified and implemented but not used by the state machine.

#### Question 6:

100% branch coverage is not possible because some branches are not accessible from outside the class. For example, exitInHouseOfCommons() and exitInSenate() cannot execute their default cases because the methods are not visible outside for sneak path test.

ID	Input	Expected output	Coverage goal
78	billState = withdrawn	billState = inPreparation	case withdrawn in
		wasEventProcessed = true	modify()
79	billState = inHouseOfCommons	billStateInHouseOfCommons = lastReading	case
	billStateInHouseOfCommons =	wasEventProcessed = true	inHouseOfCommons in

	firstReading		voteDenied()
	billStateInSenate = Null		
80	billState = inSenate	billStateInSenate = firstReadingS	case inSenate in
	billStateInSenate =	wasEventProcessed = true	voteDenied()
	firstReadingS		
	billStateInHouseOfCommons =		
	Null		
81	billState = inPreparation	billState = inPreparation	Case default in
	billStateInHouseOfCommons =	billStateInHouseOfCommons = Null	voteDenied()
	Null	billStateInSenate = Null	
	billStateInSenate = Null	wasEventProcessed = false	
82	billState = inHouseOfCommons	billState = awaitingRoyalAssent	case thirdReading with
	billStateInHouseOfCommons =	billStateInHouseOfCommons = Null	isCommonsBill = false
	thirdReading	wasEventProcessed = true	in votePasses()
	isCommonsBill = false		
83	billState = inSenate	billState = inHouseOfCommons	case thirdReadingS
	billStateInSenate =	billStateInSenate = Null	with isCommonsBill =
	thirdReadingS	billStateInHouseOfCommons = firstReading	false in votePasses()
	isCommonsBill = false	wasEventProcessed = true	
84	billState = inPreparation	getClass().getName()@Integer.toHexString(hashCode())[isCommonsBill:true]	toString()
	isCommonsBill = true		



#### Question 7:

#### See source code

Test case 9 and 19 are expected to fail because they travel the paths on the round-trip path tree that only goes from inHouseOfCommons (test case 9) or inSenate (test case 19) to awatingRoyalAssent. These paths are impossible.

#### **Question 8:**

Requirement validation would have revealed a trap door as trap door is a hidden functionality of the code that is not included in the specification. By referring back to the requirement, one can determine whether an input should be defined by the system. Each input identified in the requirement shall be recognized by the system. Once all the defined inputs are verified, variations of them can be used to test if the system responds to similar but undefined inputs. If it is not specified in the requirement but is accepted by the system, the implementation has a trap door for that input.