input variables: BoundedQueue (int) state variables: deQueue

Method	Params
BoundedQueue	int
enQueue	
	Object
deQueue	-1-1-
	state
isEmpty	state
isFull	state
enQueue deQueue isEmpty	Object state state

ID	Characteristic
C1	Constructor
C2	If argument is less than 0
C3	Make o the newest element of the queue
C4	If argument is null
C5	Remove and return oldest element of the queue
C6	If queue is empty
C7	If queue is full

		(e) Defin
Method	Characteristics	
BoundedQueue	C1, C2	
enQueue	C1, C3, C4, C7	
deQueue	C1, C5, C6	
isEmpty	C1, C6	
isFull	C1, C7	

(a) List all the input variables	, including the state

enQueue (Object) isEmpty isFull

boolean

## (b) Define the characteristics of the input variables. Make sure you

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Returns	Values	Exception
		IllegalArgumentException
		NullPointerException IllegalStateException
Object	Object o	
		IllegalStateException
boolean	true, false	

true, false

# (c) Partition the characteristics into blocks. Designate one block in each (d) Define values for each block.

BoundedQueue (int capacity)	enQueue (Object o)	deQueue ()
0	0	0
Ο		
	0	
	0	
		0
		0
	Ο	

#### e a test set that satisfies Base Choise Coverage (BCC). Write your tests with the values fr

Test Requirements	Infeasible TRs	Revised TRs
{TF, FF, TT}	FF	n/a
{TTFF, FTFF, TFFF, TTTF, TTFT}	TET\ ETEE TEEE TTTE TTET	TTTF -> TFTF
(1111,1111,1111,1111,1111)	1 1111, 11111, 11111, 11111	TTFT -> TFFT
{TTF, FTF, TFF, TTT}	FTF, TFF, TTT	TFF -> TFT
{TF, FT, TT}	FT	n/a
{TF, FT, TT}	FT	n/a

#### variables.

### a cover all input variables.

Ch ID	Characteristic
C1	Constructor
C2	If argument is less than 0
C3	Make o the newest element of the queue
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C6	If queue is empty
<b>C7</b>	If queue is full

## n partition as the "Base" block.

isEmpty()	isFull()
0	0

0

0

## rom the previous step. Be sure to include the test oracles.

# TRs

2

3

2

2 2

Partition	Base
{true, false}	Т
{true, false}	F
{true, false}	Т
{true, false}	F
{true, false}	Т
{true, false}	F
{true, false}	F