Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
1	Enter priority number 0			1-call Operation constructor with priority number 0	1- initialize operation constructor	Throw illegal argument exception	exit	Throw illegal argument exception	У
2	Enter priority number -1			1-call Operation constructor with priority number -1	1- initialize operation constructor	Throw illegal argument exception	exit	Throw illegal argument exception	У
3	Enter priority number 1			1-call Operation constructor with priority number 1	1- initialize operation constructor 2- Call getpriority()	work normally	exit	Work normally	У
4	Enter priority number 10			1-call Operation constructor with priority number 10	1- initialize operation constructor 2- Call getpriority()	Work normally	exit	Work normally	У
5	Enter priority number 100			1-call Operation constructor with priority number 100	1- initialize operation constructor	Throw illegal argument exception	exit	Throw illegal argument exception	У
6	Enter priority number 9	b		1-call Operation constructor with priority number 9	1- initialize operation constructor 2- Call getpriority()	Work normally	exit	worknormally	У

Scen#	Scenario Description	R	Со	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail
	γ	e 9 #	nd #						(Y/N)
7	Enter priority number 5			1-Intailze Operation constructor with priority number 5	1- initialize operation constructor 2- Call getpriority()	Work normally	exit	Work normally	У
8	Enter priority number 10 and increment it			1-Inalize Operation constructor with priority number 10 2-incrementprioity(20)	1- initialize operation constructor 2- Call incrementPr ty(20)	Throws illegal argument exception	exit	Throw illegal argument exception	У
9	Enter ID negative number			1-Inalize Operation constructor with ID number -1	1- initialize operation constructor with Test data	Throws illegal argument exception	exit	Doesn't throw anything and crash	У
10	Enter arrival Time negative number			1-Inalize Operation constructor with arrivalTime number -2	1- initialize operation constructor with Test Data	Throws illegal argument exception	exit	Throw illegal argument exception	У
11	Enter exeTime negative number	С		1-Inalize Operation constructor with exeTime -1	1- initialize operation constructor with Test	Throws illegal argument exception	exit	Throw illegal argument exception	У

	Test Civil Official Details												
Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)				
					Data								
12	Enter exeTime zero			1-Inalize Operation constructor with exeTime 0	1- initialize operation constructo with Test Data	Throws illegal argument exception	exit	Throw illegal argument exception	У				
13	Enter valid data of the constructor			1-Inalize Operation constructor with all valid data	1- initialize operation constructo with Test Data	Work normally	exit	Work normally	У				
14	Enter exetime 1 and decrement it two times with decrement TimeLeft(2)			1-Inalize Operation constructor with exeTime 1 2- decrementTimeleft(2)	1- initialize operation constructo with Test Data	Throws illegal argument exception	exit	Throw illegal argument exception	У				
15	Enter a valid constructor and call getWaiting() as Response time is MAX_VALUE so it return -1 in getTAT() but getwait will be a negative number			1-Inalize Operation constructor with valid input	1- initialize operation constructo with Test Data 2- call getwaiting(exit	Throw illegal argument exception	У				

	rest Environment Details											
Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)			
16	Enter a valid constructor And setResponse time with negative number			1-Inalize Operation constructor with valid input 2-setResponseTime(- 2)	1- initialize operation constructor with Test Data 2- call setResponse(- 2)	Throws illegal argument exception	exit	Throw illegal argument exception	У			
17	Enter a valid constructor And setResponse time with negative number And call getTAT will be negative number not -1			1-Inalize Operation constructor with valid input 2-setResponseTime(- 2)	1- initialize operation constructor with Test Data 2- call getTATime()	Throws illegal argument exception	exit	Throw illegal argument exception	У			
18	FCFS enqueue it when the arrival time in the past and the timer has gone			1-Inalize Operation constructor with arrival time less than timer 2-Inalize 1 Operations with valid input	1-Inalize Operation constructor with arrival time 0 timer 2-Inalize 1 Operation with valid input 3-call enqueue() 4-call consumeTimeUnit() 5-call enqueue with the operation arrivalTime less than timer	Throws illegal argument exception	exit	Throw illegal argument exception	У			
19	if the queue in FCFSQ is null and call consumeTimeUnit			1-intalize FCFSQ	1- <u>intalize FCFSQ</u> 2- <u>call</u> <u>consumeTimeUnit()</u>	Return null	exit	Return null	У			
20	Put one operation in queue and consume time unit with			1-intalize FCFSQ	1- <u>intalize FCFSQ</u> 2- <u>inalize Operation</u> <u>with exeTime 1</u>	Return null	exit	Return null	У			

				1	Test Environment D				1
Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
	exeTime 1				3- <u>call</u> <u>consumeTimeUnit()</u> 4- <u>call</u> <u>consumeTimeUnit()</u> again				
21	Empty iterator in FCFS			1-inalize FCFSQ	1-inalize FCFSQ 2-getiterator()	Work normally	exit	Work normally	У
22	SJFQ enqueue it when the arrival time in the past and the timer has gone			1-Inalize Operation constructor with arrival time less than timer 2-Inalize 1 Operations with valid input	1-Inalize Operation constructor with arrival time 0 timer 2-Inalize 1 Operation with valid input 3-call enqueue() 4-call consumeTimeUnit() 5-call enqueue with the operation arrivalTime less than timer	Throws illegal argument exception	exit	Throws illegal argument exception	У
23	Temp queue is empty			1- <u>inalize</u> <u>SJFSQ</u>	1-inalize SJFSQ 2-inalize 3 operation with arrivalTime=Timer 3-enqueue them 4-call consumeTimeUnit()	Work normally and decrement the first Operation as it is lowest exetime	exit	Work normally	У
24	In SJF queue is empty			1-inalize SJFSQ	1- Inalize SJFSQ 2- Call consumeTime() 3- Call consumeTime()agai n	Return null	Exit	Return null	У

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Scen#	Scenario Description	R e q #	Co Tes- nd #	st Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)			
25	We will put all arrivalTime queues more than timer so it will be in Temp queues			1- Inalize SJFSQ 2- Inalize 4 Operations with valid data but arrival time bigger than timer	 1- Inalize SJFSQ 2- Inalize 4	Return null in first call but second call work normally	exit	Return null in first call but second call work normally	У			
26	One process at queue			1- inalize SJFSQ 2- inalize one operation with 1 exeTime	1- inalize SJFSQ 2- inalize Operation with valid input but exeTime 1 3- enqueue it 4- ConsumeTimeUnit() 5- Call consumeTimeUnit() again	Return null	exit	Return null	У			
27	In PreemptiveSJFQ queue is empty			<u>inalize</u> eemptiveSJFQ	1- InalizePreemptiveSJFQ2- Call consumeTime	Return null	exit	Return null	У			
28	We will put all arrivalTime queues more than timer so it will be in Temp queues			1- Inalize PreemptiveSJF Q 2- Inalize 4 Operations with valid data but arrival time bigger than	 1- Inalize PreemptiveSJFQ 2- Inalize 4 operations with valid data but arrival time bigger than timer 3- Enqueue it 4- Call 	Return null in first call but second call work normally	exit	Return null in first call but second call work normally	У			

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Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
				<u>timer</u>	consumeTimeUnit() two times				
29	One process at queue			1- inalize Preemptive SJFQ 2- inalize one operation with 1 exeTime	 1- inalize SJFSQ 2- inalize Operation with valid input but exeTime 1 3- enqueue it 4- ConsumeTimeUnit() 5- Call consumeTimeUnit() again 	Return null	exit	Return null	У
Round Robin									
30	RoundRobin enqueue it when the arrival time in the past and the timer has gone			1-Inalize Operation constructor with arrival time less than timer 2-Inalize 1 Operations with valid input	1-Inalize Operation constructor with arrival time 0 timer 2-Inalize 1 Operation with valid input 3-call enqueue() 4-call consumeTimeUnit() 5-call enqueue with the operation arrivalTime less than timer	Throws illegal argument exception	exit	Throws illegal argument exception	У

Scen#	Scenario Description	R e q	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
31	In RoundRobin queue is empty	#		1-inalize RoundRobin	1- Inalize RoundRobin 2- Call consumeTime() 3- Call consumeTime()agai	Return null	exit	Return null	У
32	We will put all arrivalTime queues more than timer so it will be in Temp queues			1- <u>Inalize</u> RoundRobin 2- <u>Inalize 4</u> <u>Operations</u> <u>with valid</u> <u>data but</u> <u>arrival time</u> <u>bigger than</u> <u>timer</u>	1- Inalize RoundRobin 2- Inalize 4 operations with valid data but arrival time bigger than timer 3- Enqueue it 4- Call consumeTimeUnit() two times	Return null in first call but second call work normally	exit	Return null in first call but second call work normally	У
33	One process at queue			1- inalize SJFSQ 2- inalize one operation with 1 exeTime	1- inalize RoundRobin 2- inalize Operation with valid input but exeTime 1 3- enqueue it 4- ConsumeTimeUnit() 5- Call consumeTimeUnit() again	Return null	exit	Return null	У
34	We will put all arrivalTime queues more than timer so it			1- <u>Inalize</u> RoundRobin	1- Inalize RoundRobin 2- Inalize 3	Work normally	Exit	Work normally	У

	TEST CHAILOUMENT DETAILS											
Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)			
	will be in Temp queues and operation in queue will be less round robin but not equal zero			2- Inalize 3 Operations with valid data but arrival time bigger than timer 3- Inaltize operation with exeTime less than quantum but same arrival time in ready queue	operations with valid data but arrival time bigger than timer 3- Enqueue it 4- Inalize Operation with arrival time equal timer with exe Time less than quantum 5- consumeTimeUnit() two times							
Same for Preemptiv e and Priority queues and success												
35	In PreemptivePriority Queue different priority but same arrival time so the highest priority will be on cpu			1-inalize Preemptive Priority queue 2- inalize two operation with same arrival time but different piroity	1-inalize Preemptive Priority queue 2- inalize two operation with same arrival time but different piroity 3- enqueued them 4- check asseration	Highest pirioity on cpu	exit	Highest pirioity on cpu	N			

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Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
36	In PreemptivePriority Queue different priority and same arrival time and same priority so shortest job must be first will be on cpu			1-inalize Preemptive Priority queue 2- inalize Three operation with same arrival time and same piroity	1-inalize Preemptive Priority queue 2- inalize three operation with same arrival time and same piroity 3- enqueued them 4- check asseration	Shortest job will be on cpu	exit	Highest pirioity on cpu	N
37	Same id								
38	In Preemptive Shortestjob first Queue different arrival but same brust after consumeTimeUnit so the earliest arrival Time will be on CPU			1-inalize Preemptive PShortestJob first queue 2- inalize three operation with different arrival time but same brust after consume	1-inalize Preemptive SJF queue 2- inalize three operation with different arrival time but same brust after consume 3- enqueued them 4- check asseration	FIRST ARRIVAL STILL ON CPU	exit	FIRST ARRIVAL STILL ON CPU	У
39	In Preemptive Shortestjob first Queue same arrival and same brust but different piroity after consumeTimeUnit so highest piroity must enter			1-inalize Preemptive PShortestJob first queue 2- inalize two operation with same arrival time and same brust s	1-inalize Preemptive PShortestJob first queue 2- inalize two operation with same arrival time and same brust 3- enqueued them 4- check asseration	Highest piroity on Cpu	exit	First one with medium piroity	N

Scen#	Scenario Description	R	Со	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail
		e q	nd #						(Y/N)
		#						T	
40	Duplicate process and ID			1-inalize 3 operation with same all	1-inalize 3 operation with same all	Illegal argument excpetion	exit	Work normally	N

Scen#	Scenario Description	R e q #	Co nd #	Test Data	Test Conditions/Steps	Expected Results/Comments	Post-Conditions	Actual Results	Pass/Fail (Y/N)
	112								