Equivalence Partitions

Partion Number	Parameter	Condition Tested	Expected Result
EP1	Nights	1 - 14	Valid
EP2	Nights	<1	Invalid
EP3	Nights	>14	Invalid
EP4	Age	0-12	Valid (50% Discount)
EP5	Age	13-64	Valid (Full Price)
EP6	Age	65+	Valid (20% Discount)
EP7	Resident	TRUE	Valid ($10 Discount)
EP8	Resident	FALSE	Valid (No Discount)
EP9	Veteran	TRUE	Valid (10% Discount)
EP10	Veteran	FALSE	Valid (No Discount)

Test Case Table

Test ID	EPs Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 1.1	EP1, EP5, EP8, EP10	7	31	FALSE	FALSE	350
TC 1.2	EP2	0	31	FALSE	FALSE	Invalid
TC 1.3	EP3	15	31	FALSE	FALSE	Invalid
TC 1.4	EP1, EP4, EP8, EP10	7	9	FALSE	FALSE	175
TC 1.5	EP1, EP6, EP8, EP10	7	70	FALSE	FALSE	280
TC 1.6	EP1, EP5, EP7, EP10	7	31	TRUE	FALSE	340
TC 1.7	EP1, EP5, EP8, EP9	7	31	FALSE	TRUE	315
TC 1.8	EP1, EP5, EP7, EP9	7	31	TRUE	TRUE	306

Boundary Value			
Boundary Value I	Parameter	Condition Tested	Expected Result
BV1	Nights	0	Invalid (Below Min)
BV2	Nights	1	Valid (Minimum
BV3	Nights	14	Valid (Maximum)
BV4	Nights	15	Invalid (Above Max)
BV5	Age	-1	Invalid (Below Min)
BV6	Age	0	Valid (Min Child)
BV7	Age	12	Valid (Max Child)
BV8	Age	13	Valid (Min Adult)
BV9	Age	64	Valid (Max Adult)
BV10	Age	65	Valid (Min Senior)

Test Case Table						
Test ID	BV Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 2.1	BV1	0	31	FALSE	FALSE	Invalid
TC 2.2	BV2	1	31	FALSE	FALSE	$50
TC 2.3	BV3	14	31	FALSE	FALSE	700
TC 2.4	BV4	15	31	FALSE	FALSE	Invalid
TC 2.5	BV5	1	-1	FALSE	FALSE	invalid
TC 2.6	BV6	1	0	FALSE	FALSE	25
TC 2.7	BV7	1	12	FALSE	FALSE	25
TC 2.8	BV8	1	13	FALSE	FALSE	50
TC 2.9	BV9	1	64	FALSE	FALSE	50
TC 2.10	BV10	1	65	FALSE	FALSE	40

Causes	Rule 1 (DT1)	Rule 2 (DT2)	Rule 3 (DT3)	Rule 4 (DT4)	Rule 5 (DT50)	Rule 6 (DT6)	Rule 7 (DT7)	Rule 8 (DT8)	Rule 9 (DT9)	Rule 10 (DT10)	Rule 11 (DT11)	Rule 12 (DT12)	Rule 13 (DT13)	Rule 14 (DT14)	Rule 15 (DT15)
Nights < 1	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
Nights > 14	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
Age <0	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
Age <=12	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE
Age >=65	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	FALSE	FALSE	FALSE	TRUE	TRUE	FALSE
Resident	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	FALSE	TRUE	TRUE	TRUE	FALSE	TRUE	FALSE	TRUE	FALSE
Veteran	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	FALSE	TRUE	FALSE	FALSE
Effects															
Invalid	TRUE	TRUE	TRUE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE	FALSE
Return Price	FALSE	FALSE	FALSE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE

Test Case Table						
Test ID	Rule Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
3.1	DT1	0	31	FALSE	FALSE	Invalid
3.2	DT2	15	31	FALSE	FALSE	Invalid
3.3	DT3	7	-1	FALSE	FALSE	Invalid
3.4	DT4	1	12	FALSE	FALSE	25
3.5	DT5	1	65	FALSE	FALSE	40
3.6	DT6	1	31	TRUE	FALSE	40
3.7	DT7	1	31	FALSE	TRUE	45
3.8	DT8	1	31	TRUE	TRUE	36
3.90	DT9	1	65	TRUE	TRUE	27
3.10	DT10	1	12	TRUE	TRUE	13.5
3.11	DT11	1	12	FALSE	TRUE	22.5
3.12	DT12	1	12	TRUE	FALSE	15
3.13	DT13	1	65	FALSE	TRUE	36
3.14	DT14	1	65	TRUE	FALSE	30
3.15	DT15	1	31	FALSE	FALSE	50

	Test Case Table - Final					
Test ID	Test Case Covered	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 4.1	TC 1.2, 2.1, 3.1	0	13	FALSE	FALSE	INVALID
TC 4.2	TC 1.3, 2.4, 3.2	15	13	FALSE	FALSE	INVALID
TC 4.3	TC 2.5, 3.3	1	-1	FALSE	FALSE	INVALID
TC 4.4	TC 1.1, 2.2, 3.15	1	13	FALSE	FALSE	50
TC 4.5	TC 1.8, 2.8, 3.8	1	13	TRUE	TRUE	36
TC 4.6	TC 1.6, 2.8, 3.6	1	13	TRUE	FALSE	40
TC 4.7	TC 1.7, 2.8, 3.7	1	13	FALSE	TRUE	45
TC 4.8	TC 1.4, 2.7, 3.4	1	12	FALSE	FALSE	25
TC 4.9	TC 1.3, 2.7, 3.10	1	12	TRUE	TRUE	13.5
TC 4.10	TC 1.3, 2.7, 3.11	1	12	FALSE	TRUE	22.5
TC 4.11	TC 1.3, 2.7, 3.12	1	12	TRUE	FALSE	15
TC 4.12	TC 1.5, 2.10, 3.5	1	65	FALSE	FALSE	40
TC 4.13	TC 1.5, 2.10, 3.9	1	65	TRUE	TRUE	27
TC 4.14	TC 1.5, 2.10, 3.13	1	65	FALSE	TRUE	36
TC 4.15	TC 1.5, 2.10, 3.14	1	65	TRUE	FALSE	30
TC 4.16	TC 1.1, 2.3, 3.15	14	13	FALSE	FALSE	700

	Test Case Table - EP					
Test ID	EPs Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 1.1	EP1, EP5, EP8, EP10	7	31	FALSE	FALSE	350
TC 1.2	EP2	0	31	FALSE	FALSE	Invalid
TC 1.3	EP3	15	31	FALSE	FALSE	Invalid
TC 1.4	EP1, EP4, EP8, EP10	7	9	FALSE	FALSE	175
TC 1.5	EP1, EP6, EP8, EP10	7	70	FALSE	FALSE	280
TC 1.6	EP1, EP5, EP7, EP10	7	31	TRUE	FALSE	340
TC 1.7	EP1, EP5, EP8, EP9	7	31	FALSE	TRUE	315
TC 1.8	EP1, EP5, EP7, EP9	7	31	TRUE	TRUE	306

	Test Case Table - BVA					
Test ID	BV Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 2.1	BV1	0	31	FALSE	FALSE	Invalid
TC 2.2	BV2	1	31	FALSE	FALSE	$50
TC 2.3	BV3	14	31	FALSE	FALSE	700
TC 2.4	BV4	15	31	FALSE	FALSE	Invalid
TC 2.5	BV5	1	-1	FALSE	FALSE	invalid
TC 2.6	BV6	1	0	FALSE	FALSE	25
TC 2.7	BV7	1	12	FALSE	FALSE	25
TC 2.8	BV8	1	13	FALSE	FALSE	50
TC 2.9	BV9	1	64	FALSE	FALSE	50
TC 2.10	BV10	1	65	FALSE	FALSE	40

	Test Case Table - Decision Tree					
Test ID	Rule Tested	Parameter: Nights	Parameter: Age	Parameter: Resident	Parameter: Veteran	Expected Result
TC 3.1	DT1	0	31	FALSE	FALSE	Invalid
TC 3.2	DT2	15	31	FALSE	FALSE	Invalid
TC 3.3	DT3	7	-1	FALSE	FALSE	Invalid
TC 3.4	DT4	1	12	FALSE	FALSE	25
TC 3.5	DT5	1	65	FALSE	FALSE	40
TC 3.6	DT6	1	31	TRUE	FALSE	40
TC 3.7	DT7	1	31	FALSE	TRUE	45
TC 3.8	DT8	1	31	TRUE	TRUE	36
TC 3.9	DT9	1	65	TRUE	TRUE	27
TC 3.10	DT10	1	12	TRUE	TRUE	13.5
TC 3.11	DT11	1	12	FALSE	TRUE	22.5
TC 3.12	DT12	1	12	TRUE	FALSE	15
TC 3.13	DT13	1	65	FALSE	TRUE	36
TC 3.14	DT14	1	65	TRUE	FALSE	30
TC 3.15	DT15	1	31	FALSE	FALSE	50

1	13	FALSE	FALSE	50
1	13	TRUE	TRUE	36
1	13	TRUE	FALSE	40
1	13	FALSE	TRUE	45
1	12	FALSE	FALSE	25
1	12	TRUE	TRUE	13.5
1	12	FALSE	TRUE	22.5
1	12	TRUE	FALSE	15
1	65	FALSE	FALSE	40
1	65	TRUE	TRUE	27
1	65	FALSE	TRUE	36
1	65	TRUE	FALSE	30
14	13	FALSE	FALSE	700