

Jack Dingman
Test Design

| TCI | Parameter | Equivalence Partition | Test Case |
|-----|-----------|-----------------------|-----------|
| EP1 | AGE | 0-12 | TC1.1 |
| EP2 | AGE | 13-64 | TC1.2 |
| EP3 | AGE | 65-Integer.MAX | TC1.3 |
| EP4 | AGE | x<0 | TC1.4 |

Age - EP/BVA
2 Point BVA

| Test Case ID | TCI Covered | Input: Age | Expected Output |
|--------------|-------------|------------|-----------------|
| TC1.1 | EP1 | 0 | 50% |
| TC1.1 | EP1 | 12 | 50% |
| TC1.2 | EP2 | 13 | 0% |
| TC1.2 | EP2 | 64 | 0% |
| TC1.3 | EP3 | 65 | 20% |
| TC1.3 | EP3 | 1000 | 20% |
| TC1.4 | EP4 | -1 | Invalid |

Nights

| Test Case ID | Input | Expected Valid? | Notes |
|--------------|-------|-----------------|--------------------|
| TC2.1 | 1 | TRUE | minimum valid |
| TC2.2 | 14 | TRUE | maximum valid |
| TC2.3 | 0 | FALSE | just below minimum |
| TC2.4 | 15 | FALSE | just above minimum |

Decision Table

| Causes | Rule 1 | Rule 2 | Rule 3 | Rule 4 |
|----------|--------|--------|--------|--------|
| Resident | F | T | F | T |
| Veteran | F | F | T | T |
| Effects | | | | |
| \$10 off | No | Yes | No | Yes |
| 10% off | No | No | Yes | Yes |

| DT Test Cases | TCIs | Rule | Nights | Guest Age | isArkansasResident | hasVeteranDiscount | Expected |
|---------------|-------|------|--------|-----------|--------------------|--------------------|----------|
| | TC3.1 | | 1 | 1 | 50 | FALSE | FALSE |
| | TC3.2 | | 2 | 1 | 50 | TRUE | FALSE |
| | TC3.3 | | 3 | 1 | 50 | FALSE | TRUE |
| | TC3.4 | | 4 | 1 | 50 | TRUE | TRUE |