State Cinema Ticket Price Controller Testing

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# Introduction

There are some limitations of the test project. Not all parameters listed in the pricing are implemented in the test cases. Also, all prices listed in the tests are assumed to be 2d movies, due to that being the column that includes kids and carers. There is no handling of the type of movie being watched in any of the movies.

* Time before 5 could be A.M. or P.M. No input validation to ensure that only the hour is entered rather than another time format.

PRICING AND POLICY

**Ticket Prices**

|  |  |
| --- | --- |
|  | **2D** |
| Adult before 5pm | $14.50 |
| Adult after 5pm | $17.50 |
| Adult Tuesday (all day) | $13.00 |
| Child (under 16) (all day) | $12.00 |
| Senior (65+) (all day) | $12.50 |
| Student (Current ID required) | $14.00 |
| Family Pass (2 Adults/2 Children) or (1 Adult/3 Children)\*Family Pass (2 Adults/2 Children) or (1 Adult/3 Children) | $46.00 |
| Red Carpet Special (Film & Drink or Large Popcorn) | $22.00 |
| Kids and Carers (1st Wed every Month) | $14.50 |

\*Family Pass tickets must be sold to the same film.

# Adult Before 5

Inputsint prQuantity, string prPerson, string prDay, decimal prTime

Outputs – dec

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| Acceptable | >0 | Adult | Monday  Wednesday  Thursday  Friday  Saturday  Sunday | >5  <12 |
| Unacceptable | >=0 | Student  Family  Senior  Child | Tuesday | >=0  <5 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | | |
| **Use Cases** | **Quantity** | **Person** | **Day** | **Time** | **Expected** | **Result** |
| One Adult on Monday at 1.00 | 1 | Adult | Monday | 1.00 | 14.50 | 14.50 |
| One Adult on Saturday at 2.00 | 1 | Adult | Monday | 2.00 | 14.50 | 14.50 |
| Three Adults on Thursday at 1.30 | 3 | Adult | Thursday | 1.30 | 43.50 | 43.50 |
| 1 Adult on Tuesday at 2.45 | 1 | Adult | Tuesday | 2.45 | -1 | -1 |
| 1 Child on Wednesday at 2.45 | 1 | Child | Wednesday | 2.45 | -1 | -1 |
| 1 Student on Wednesday at 3.00 | 1 | Student | Wednesday | 3.00 | -1 | -1 |
| 1 Senior on Wednesday at 3.00 | 1 | Senior | Wednesday | 3.00 | -1 | -1 |
| 1 adult on Wednesday at 10am | 1 | Adult | Wednesday | 10.00 | 14.5 | -1 |
| 1 family on Wednesday at 3.00 | 1 | Family | Wednesday | 3.00 | -1 |  |

# Adult After 5

Inputs – int prQuantity, string prPerson, string prDay, decimal prTime

Outputs - dec

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| Acceptable | >0 | Adult | Monday  Wednesday  Thursday  Friday  Saturday  Sunday | >5  <12 |
| Unacceptable | >=0 | Student  Family  Senior  C hild | Tuesday | <5  >12 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | | |
| **Use Cases** | **Quantity** | **Person** | **Day** | **Time** | **Expected** | **Result** |
| 1 Adult Wednesday 6pm | 1 | Adult | Wednesday | 6.00 | 17.5 | 17.5 |
| 2 Adults Thursday 7.40pm | 2 | Adult | Thursday | 7.40 | 35 | 35 |
| 1 adult Saturday 8pm | 1 | Adult | Saturday | 8.00 | 17.5 |  |
| 1 Student Wednesday 8pm | 1 | Student | Wednesday | 8.00 | -1 |  |
| 1 Family Wednesday 8pm | 1 | Family | Wednesday | 8.00 | -1 |  |
| 1 Senior Wednesday 8pm | 1 | Senior | Wednesday | 8.00 | -1 |  |
| 1 ADULT Wednesday 8pm | 1 | ADULT | Wednesday | 8.00 | 17.5 |  |

# Adult Tuesday

Inputs – int prQuantity, string prPerson, string prDay  
Outputs – dec

|  |  |  |  |
| --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | |
| **Status** | **Quantity** | **Person** | **Day** |
| Acceptable | > 0 | adult | Tuesday |
| Unacceptable | <=0 | Student  Family  Senior  Child | Monday  Wednesday  Thursday  Friday  Saturday  Sunday |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Cases** | | | | | |
| **Use Cases** | **Quantity** | **Person** | **Day** | **Expected** | **Result** |
| 1 Adult Tuesday | 1 | Adult | Tuesday | 13 |  |
| 4 Adults Tuesday | 1 | Adult | Tuesday | 52 |  |
| 1 Child Tuesday | 1 | Child | Tuesday | -1 |  |
| 1 Student Tuesday | 1 | Student | Tuesday | -1 |  |
| 1 Family Tuesday | 1 | Family | Tuesday | -1 |  |
| 1 Adult Wednesday 6pm | 1 | Adult | Wednesday | -1 |  |

**Child Under 16**

Inputs – int prQuantity, string prPerson  
Outputs – dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable | > 0 | Child |
| Unacceptable | <=0 | Senior  Adult  Student  Family |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Cases** | | | | |
| **Use Cases** | **Quantity** | **Person** | **Expected** | **Result** |
| 1 Child under 16 | 1 | Child | 12 | 12 |
| 3 Children under 16 | 3 | Child | 36 | 36 |
| 1 Student | 1 | Student | -1 | -1 |
| 1 Family | 1 | Family | -1 | -1 |
| 1 Adult | 1 | Adult | -1 | -1 |

# Senior

Inputs – int prQuantity, string prPerson  
Outputs – dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable | > 0 | Senior |
| Unacceptable | <=0 | Adult  Child  Student  Family |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Schedule** | | | | |
| **Use Cases** | **Quantity** | **Person** | **Expected** | **Result** |
| 1 Senior tickets | 1 | Senior | 12.50 | 12.50 |
| 3 Seniors tickets | 3 | Senior | 37.50 |  |
| 1 Student tickets | 1 | Student | -1 | -1 |
| 1 Family tickets | 1 | Family | -1 | -1 |
| 1 Adult tickets | 1 | Adult | -1 | -1 |
| 1000 Senior tickets | 1000 | Senior | 12500 | 12500 |
| -1 Senior tickets | -1 | Senior | -1 | -1 |

# Student

Input - int prQuantity, string prPerson

Output - dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable | > 0 | Student |
| Unacceptable | <=0 | Adult  Child  Student  Family |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Schedule** | | | | |
| **Use Cases** | **Quantity** | **Person** | **Expected** | **Result** |
| 1 Student ticket | 1 | Student | 14 | 14 |
| 7 Students tickets | 7 | Student | 98 | 98 |
| -10 Students tickets | -10 | Student | -1 | -1 |
| 1 Family ticket | 1 | Family | -1 | -1 |
| 1 Adult ticket | 1 | Adult | -1 | -1 |
| 1 Senior ticket | 1 | Senior | -1 | -1 |

# Family Pass

Input - int prQuantityTicket, int prQuantityAdult, int prQuantityChild

Output - dec

|  |  |  |  |
| --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | |
| **Status** | **Quantity** | **Quantity Adult** | **Quantity Child** |
| Acceptable | > 0 |  |  |
| Unacceptable | <=0 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | |
| **Use Cases** | **Quantity** | **Quantity Adult** | **Quantity Child** | **Expected** | **Result** |
| 2 adults and 2 children 1 family pass | 1 | 2 | 2 | 46 |  |

# Chick Flick Thursday

Input - int prQuantity, string prPerson, string prDay

Output - dec

|  |  |  |  |
| --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | |
| **Status** | **Quantity** | **Person** | **Day** |
| Acceptable | > 0 |  | Thursday |
| Unacceptable | <=0 |  | Monday  Tuesday  Wednesday  Friday  Saturday  Sunday |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | | |
| **Use Cases** | **Quantity** | **Person** | **Day** | **Time** | **Expected** | **Result** |
| 1 |  |  |  |  |  |  |

**Kids Careers**

Input - int prQuantity, string prDay, bool prHoliday

Output - dec

|  |  |  |  |
| --- | --- | --- | --- |
| Equivalence partitioning and boundaries | | | |
| **Status** | **Quantity** | **Day** | **Time** |
| Acceptable | > 0 |  |  |
| Unacceptable | <=0 |  |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | |
| **Use Cases** | **Quantity** | **Day** | **Time** | **Expected** | **Result** |
|  |  |  |  |  |  |

# References