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 | -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  child | 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 |  |

# 3.AdultTuesday

Inputs – int prquantity, string prperson, string prday  
Outputs – dec

|  |  |  |  |
| --- | --- | --- | --- |
| **Equivalence partitioning and boundaries** | | | |
| **Status** | **Quantity** | **Person** | **Day** |
| Acceptable | >0 | adult | Monday  Wednesday  Thursday  Friday  Saturday  Sunday |
| Unacceptable | >=0 | student  family  senior  child | Tuesday |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Test Cases** | | | | | |
| **Use Cases** | **Quantity** | **Person** | **Day** | **Expected** | **Result** |
|  |  |  |  |  |  |

**4.ChildUnder16**

Inputs – int prquantity, string prperson  
Outputs – dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable |  |  |
| Unacceptable |  |  |

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

# 5.Senior

Inputs – int prquantity, string prperson  
Outputs – dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable |  |  |
| Unacceptable |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Schedule** | | | | |
| **Use Cases** | **Quantity** | **Person** | **Expected** | **Result** |
|  |  |  |  |  |

# 6.Student

Input - int prquantity, string prperson

Output - dec

|  |  |  |
| --- | --- | --- |
| **Equivalence partitioning and boundaries** | | |
| **Status** | **Quantity** | **Person** |
| Acceptable |  |  |
| Unacceptable |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test Schedule** | | | | |
| **Use Cases** | **Quantity** | **Person** | **Expected** | **Result** |
|  |  |  |  |  |

# 7.FamilyPass

Input - int prquantityticket, int prquantityadult, int prquantitychild

Output - dec

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Equivalence partitioning and boundaries | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| Acceptable |  |  |  |  |
| Unacceptable |  |  |  |  |

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

# 8.ChickFlickThursday

Input - int prquantity, string prperson, string prday

Output - dec

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Equivalence partitioning and boundaries | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| Acceptable |  |  |  |  |
| Unacceptable |  |  |  |  |

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

**9.KidsCareers**

Input - int prquantity, string prday, bool prholiday

Output - dec

|  |  |  |  |
| --- | --- | --- | --- |
| Equivalence partitioning and boundaries | | | |
| **Status** | **Quantity** | **Day** | **Time** |
| Acceptable |  |  |  |
| Unacceptable |  |  |  |

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

# References