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SDV502

Assessment 1

Test Schedule

**Test cases**

* Adults before 5: “public decimal Adult\_Before\_5” (CinemaFunctions\app.cs, line 9-23)
* Adults After 5: “public decimal Adult\_After\_5” (CinemaFunctions\app.cs, line 26-40)
* Adults on Thursday: “public decimal Adult\_Tuesday()” (CinemaFunctions\app.cs, line 43-54)
* Children under 16: “public decimal Child\_Under\_16()” (CinemaFunctions\app.cs, line 57-68)
* Seniors: “public decimal Senior()” (CinemaFunctions\app.cs, line 71-82)
* Students: “public decimal Student()” (CinemaFunctions\app.cs, line 85-96)
* Family pass: “public decimal Family\_Pass()” (CinemaFunctions\app.cs, line 99-111)
* Chick-flick Thursday: “public decimal Chick\_Flick\_Thursday()” (CinemaFunctions\app.cs, line 114-125)
* Kids and carers: “public decimal Kids\_Carers()” (CinemaFunctions\app.cs, line 128-139)

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** | **DAY OF WEEK** | **TIME OF MOVIE** |
| **ACCEPTABLE** | >0 | Adult | (Any other than Tuesday) | <=0500 |
| **UNACCEPTABLE** | <=0 | Student  Family  Child  Senior | Tuesday | >0500 |

**Adults before 5**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)
* Day of movie screening (string pr\_day)
* Time of movie screening (decimal pr\_time)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **DAY** | **TIME** | **EXPECTED RESULT** | **RESULT** |
| One adult before 5pm (expected days) | 1 | 1 |  |  |  | Monday | 0400 | 14.50 | Pass |
| Two adults before 5pm (expected days) | 2 | 2 |  |  |  | Wednesday | 0100 | 29 | Pass |
| One adult before 5pm (unexpected day) | 1 | 1 |  |  |  | Tuesday | 0600 | -1 | Pass |
| One student before 5pm (expected day) | 1 |  |  | 1 |  | Friday | 0300 | -1 | Pass |
| One senior after 5pm (expected day) | 1 |  |  |  | 1 | Thursday | 0700 | -1 | Pass |
| Two children before 5pm (unexpected day) | 2 |  | 2 |  |  | Tuesday | 0400 | -1 | Pass |
| No customer, before 5pm (expected day) | 0 |  |  |  |  | Saturday | 0200 | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** | **DAY OF WEEK** | **TIME OF MOVIE** |
| **ACCEPTABLE** | >0 | Adult | (Any other than Tuesday) | >0500 |
| **UNACCEPTABLE** | <=0 | Student  Family  Child  Senior | Tuesday | <=0500 |

**Adults after 5**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)
* Day of movie screening (string pr\_day)
* Time of movie screening (decimal pr\_time)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **DAY** | **TIME** | **EXPECTED RESULT** | **RESULT** |
| One adult, after 5pm (expected day) | 1 | 1 |  |  |  | Monday | 0600 | 17.5 | Pass |
| Two adults, after 5pm (expected day) | 2 | 2 |  |  |  | Wednesday | 0800 | 35 | Pass |
| One adult, after 5pm (unexpected day) | 1 | 1 |  |  |  | Tuesday | 0700 | -1 | Pass |
| One student before 5pm (expected day) | 1 |  |  | 1 |  | Thursday | 0300 | -1 | Pass |
| One senior after 5pm (expected day) | 1 |  |  |  | 1 | Friday | 0800 | -1 | Pass |
| Two children before 5pm (unexpected day) | 2 |  | 2 |  |  | Tuesday | 0200 | -1 | Pass |
| No customer, after 5pm (expected day) | 0 |  |  |  |  | Saturday | 0700 | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** | **DAY OF WEEK** |
| **ACCEPTABLE** | >0 | Adult | Tuesday |
| **UNACCEPTABLE** | <=0 | Student  Family  Child  Senior | (Any other than Tuesday) |

**Adults on Tuesday**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)
* Day of movie screening (string pr\_day)

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| **TEST SCHEDULE** | | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **DAY** | **EXPECTED RESULT** | **RESULT** |
| One adult (expected day) | 1 | 1 |  |  |  | Tuesday | 13 | Pass |
| Two adults (expected day) | 2 | 2 |  |  |  | Tuesday | 26 | Pass |
| One adult (unexpected day) | 1 | 1 |  |  |  | Wednesday | -1 | Pass |
| One student (expected day) | 1 |  |  | 1 |  | Thursday | -1 | Pass |
| One senior (expected day) | 1 |  |  |  | 1 | Friday | -1 | Pass |
| Two children (unexpected day) | 2 |  | 2 |  |  | Tuesday | -1 | Pass |
| No customer (expected day) | 0 |  |  |  |  | Saturday | -1 | Pass |

Output: Decimal total price (decimal result)

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** |
| **ACCEPTABLE** | >0 | Child |
| **UNACCEPTABLE** | <=0 | Student  Family  Adult  Senior |

**Children (under 16)**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **EXPECTED RESULT** | **RESULT** |
| One child | 1 |  | 1 |  |  | 12 | Pass |
| Two children | 2 |  | 2 |  |  | 24 | Pass |
| One adult | 1 | 1 |  |  |  | -1 | Pass |
| Two students | 2 |  |  | 2 |  | -1 | Pass |
| Three seniors | 3 |  |  |  | 3 | -1 | Pass |
| No customer | 0 |  |  |  |  | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** |
| **ACCEPTABLE** | >0 | Senior |
| **UNACCEPTABLE** | <=0 | Student  Family  Adult  Child |

**Seniors**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **EXPECTED RESULT** | **RESULT** |
| One senior | 1 |  |  |  | 1 | 12.5 | Pass |
| Two seniors | 2 |  |  |  | 2 | 25 | Pass |
| One adult | 1 | 1 |  |  |  | -1 | Pass |
| Two students | 2 |  |  | 2 |  | -1 | Pass |
| Three children | 3 |  | 3 |  |  | -1 | Pass |
| One senior one adult | 2 | 1 |  |  | 1 | -1 | Pass |
| No customer | 0 |  |  |  |  | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** |
| **ACCEPTABLE** | >0 | Student |
| **UNACCEPTABLE** | <=0 | Child  Family  Adult  Senior |

**Students**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **EXPECTED RESULT** | **RESULT** |
| One student | 1 |  |  | 1 |  | 14 | Pass |
| Two students | 2 |  |  | 2 |  | 28 | Pass |
| One adult | 1 | 1 |  |  |  | -1 | Pass |
| Two children | 2 |  | 2 |  |  | -1 | Pass |
| Three seniors | 3 |  |  |  | 3 | -1 | Pass |
| No customer | 0 |  |  |  |  | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | |
| **STATUS** | **QUANTITY OF TICKET** | **# OF ADULTS AND CHILDREN** |
| **ACCEPTABLE** | >0 | (2 Adults/2 Children) or (1 Adult/3 Children) |
| **UNACCEPTABLE** | <=0 | Difference from above |

**Family pass**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Quantity of children (int pr\_quantity\_adult)
* Quantity of adults (int pr\_quantity\_child)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **EXPECTED RESULT** | **RESULT** |
| One adult, three children buy one pass | 1 | 1 | 3 | 46 | Pass |
| Two adults, two children buy one pass | 1 | 2 | 2 | 46 | Pass |
| Three adults, one child buy one pass | 1 | 3 | 1 | -1 | Pass |
| Four adults, four children buy two passes | 2 | 4 | 4 | 92 | FAIL |
| Two adults, two children buy two passes | 2 | 2 | 2 | -1 | FAIL |
| No customer buys a pass | 1 | 0 | 0 | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | | |
| **STATUS** | **QUANTITY OF TICKET** | **TYPE OF PERSON** | **DAY OF THE WEEK** |
| **ACCEPTABLE** | >0 | Adult | Thursday |
| **UNACCEPTABLE** | <=0 | Student  Family  Child  Senior | (Any other than Thursday) |

**Chick-flick Thursday**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Type of customer (string pr\_person)
* Day of movie screening (string pr\_day)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **# OF ADULT(S)** | **# OF CHILDREN** | **# OF STUDENT(S)** | **# OF SENIOR(S)** | **DAY** | **EXPECTED RESULT** | **RESULT** |
| One adult (expected day) | 1 | 1 |  |  |  | Thursday | 21.5 | Pass |
| Three adults (expected day) | 2 | 2 |  |  |  | Thursday | 43 | Pass |
| One adult (unexpected days) | 1 | 1 |  |  |  | Monday | -1 | Pass |
| One student (expected day) | 1 |  |  | 1 |  | Thursday | -1 | Pass |
| One senior (expected day) | 1 |  |  |  | 1 | Thursday | -1 | Pass |
| Two children (unexpected day) | 2 |  | 2 |  |  | Tuesday | -1 | Pass |
| No customer (expected day) | 0 |  |  |  |  | Thursday | -1 | Pass |

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| **EQUIVALENCE PARTITIONING AND BOUNDARIES** | | | |
| **STATUS** | **QUANTITY OF TICKET** | **HOLIDAY FLAG** | **DAY OF THE WEEK** |
| **ACCEPTABLE** | >0 | False | Wednesday |
| **UNACCEPTABLE** | <=0 | True | (Any other than Wednesday) |

**Kids and carers**

Inputs:

* Quantity of tickets (int pr\_quantity)
* Day of movie screening (string pr\_day)
* Holiday check (bool pr\_holiday)

Output: Decimal total price (decimal result)

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| **TEST SCHEDULE** | | | | | |
| **USE CASE** | **QUANTITY**  **OF TICKETS** | **DAY** | **HOLIDAY** | **EXPECTED RESULT** | **RESULT** |
| Two tickets, for Wednesday, not during holiday | 2 | Wednesday | No | 24 | Pass |
| One ticket, for Wednesday, during holiday | 1 | Wednesday | Yes | -1 | Pass |
| Two tickets, Tuesday, not during holiday | 2 | Tuesday | No | -1 | Pass |
| Three tickets, Monday, during holiday | 3 | Monday | Yes | -1 | Pass |
| No customer, Wednesday not during holiday | 0 | Wednesday | No | -1 | Pass |