SDV502

Assignment 2

Hannah Wilson

13030830

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## Adult\_Before\_5()

This function does…

Input: int quantity, string person, string day, decimal time

Output: decimal expectedAmount

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Adult | Monday,  Wednesday,  Thursday,  Friday,  Saturday,  Sunday | <=1700 |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Child | Tuesday | >1700 |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One adult on Monday | 1 | Adult | Monday | 1600 | 14.50 | Pass |
| 1. Two adults on Monday | 2 | Adult | Monday | 1600 | 29.00 | Pass |
| 1. Zero adults on Monday | 0 | Adult | Monday | 1600 | -1 | Pass |
| 1. Four adults on Monday | 4 | Adult | Monday | 1800 | -1 | Pass |
| 1. Four adults on Monday | 4 | Adult | Monday | 1600 | 58.00 | Pass |

## Adult\_After\_5()

This function does…

Input: int quantity, string person, string day, decimal time

Output: decimal expectedAmount

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| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Adult | Monday,  Wednesday,  Thursday,  Friday,  Saturday,  Sunday | >1700 |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Child | Tuesday | <=1700 |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One adult on Sunday | 1 | Adult | Sunday | 1700 | 17.50 | Pass |
| 1. Three Adults on Saturday | 3 | Adult | Saturday | 1900 | 52.50 | Pass |
| 1. One adult on Monday | 1 | Adult | Monday | 1800 | 17.50 | Pass |
| 1. One adult on Wednesday | 1 | Adult | Wednesday | 1700 | 17.50 | Pass |
| 1. Two adults on Friday | 2 | Adult | Friday | 1900 | 35.00 | Pass |

## Adult\_Tuesday()

This function does…

Input: int quantity, string person, string day

Output: decimal expectedAmount

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Adult | Tuesday | Any |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Child | Monday,  Wednesday,  Thursday,  Friday,  Saturday,  Sunday | Null |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One adult on Tuesday | 1 | Adult | Tuesday | - | 13.00 | Pass |
| 1. Three adults on Tuesday | 3 | Adult | Tuesday | - | 39.00 | Pass |
| 1. Twenty-five adults on Tuesday | 25 | Adult | Tuesday | - | 325.00 | Pass |
| 1. Five adults on Tuesday | 5 | Adult | Tuesday | - | 65.00 | Pass |
| 1. Four adults on Tuesday | 4 | Adult | Tuesday | - | 52.00 | Pass |

## Child\_Under\_16()

This function does…

Input: int quantity, string person

Output: decimal expectedAmount

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| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Child | Any | Any |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Adult | - | - |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. Six children | 6 | Child | - | - | 72.00 | Pass |
| 1. Sixty children | 60 | Child | - | - | 720.00 | Pass |
| 1. One child | 1 | Child | - | - | 12.00 | Pass |
| 1. Twenty children | 20 | Child | - | - | 240.00 | Pass |
| 1. Sixteen children | 16 | Child | - | - | 192.00 | Pass |

## Senior()

This function does…

Input:

Output:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Senior | Any | Any |
| **Unacceptable** | <=0 | Student,  Family,  Adult,  Child | - | - |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One Senior | 1 | Senior | - | - | 12.50 | Pass |
| 1. Twenty Seniors | 20 | Senior | - | - | 250.00 | Pass |
| 1. Three Seniors | 3 | Senior | - | - | 37.50 | Pass |
| 1. Five Seniors | 5 | Senior | - | - | 62.50 | Pass |
| 1. Two Seniors | 2 | Senior | - | - | 25.00 | Pass |

## Student()

This function does…

Input: int quantity, string person

Output: decimal expectedAmount

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| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Student | Any | - |
| **Unacceptable** | <=0 | Adult,  Family,  Senior,  Child | - | - |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One student | 1 | Student | - | - | 14.00 | Pass |
| 1. Fifty students | 50 | Student | - | - | 700.00 | Pass |
| 1. Twenty-three students | 23 | Student | - | - | 322.00 | Pass |
| 1. Seven students | 7 | Student | - | - | 98.00 | Pass |
| 1. Two students | 2 | Student | - | - | 28.00 | Pass |

## Family\_Pass()

This function does…

Input: int quantity\_ticket, int quantity\_adult, int quantity\_child

Output: decimal expectedAmount

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| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >=4 | Adult, Child | Any | Any |
| **Unacceptable** | Less than 4 | Student,  Family,  Senior | - | - |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity\_ticket** | **Quantity\_Adult** | **Quantity\_Child** | **Time** | **Expected Amount** | **Result** |
| 1. One family ticket, one adult, three children | 1 | 1 | 3 | - | 46.00 | Pass |
| 1. One family ticket. Two adults, two children | 1 | 2 | 2 | - | 46.00 | Pass |
| 1. One family ticket. Three adults, one child | 1 | 3 | 1 | - | 46.00 | Fail |
| 1. One family ticket. One adult, two children | 1 | 1 | 2 | - | 46.00 | Fail |
| 1. One family ticket. Four adults, zero children | 1 | 4 | 0 | - | 46.00 | Fail |

## Chick\_Flick\_Thursday()

This function does…

Input: int quantity, string person, string day

Output: decimal expectedAmount

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| --- | --- | --- | --- | --- |
| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Time** |
| **Acceptable** | >0 | Adult | Thursday, | - |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Child | Monday, Tuesday, Wednesday, Friday, Saturday, Sunday | - |

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| --- | --- | --- | --- | --- | --- | --- |
| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Time** | **Expected Amount** | **Result** |
| 1. One adult on Thursday | 1 | Adult | Thursday | - | 21.50 | Pass |
| 1. Three adults on Thursday | 3 | Adult | Thursday | - | 64.50 | Pass |
| 1. Eight adults on Thursday | 8 | Adult | Thursday | - | 172.00 | Pass |
| 1. Thirty-two adults on Thursday | 32 | Adult | Thursday | - | 688.00 | Pass |
| 1. Two adults on Thursday | 2 | Adult | Thursday | - | 43.00 | Pass |

## Kids-Careers()

This function does…

Input: int quantity, string day, bool holiday

Output: decimal expectedAmount

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| **Equivalence Partitioning & Boundaries** | | | | |
| **Status** | **Quantity** | **Person** | **Day** | **Holiday** |
| **Acceptable** | >0 | Child | Wednesday | No |
| **Unacceptable** | <=0 | Student,  Family,  Senior,  Adult | Monday, Tuesday, Thursday, Friday, Saturday, Sunday | Yes |

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| **Test Schedule** | | | | | | |
| **Test Case** | **Quantity** | **Person** | **Day** | **Holiday** | **Expected Amount** | **Result** |
| 1. One child on Wednesday | 1 | Child | Wednesday | False | 12.00 | Pass |
| 1. Three Children on Wednesday | 3 | Child | Wednesday | False | 36.00 | Pass |
| 1. Five Children on Wednesday | 5 | Child | Wednesday | False | 60.00 | Pass |
| 1. Twenty-one Children on Wednesday | 21 | Child | Wednesday | False | 252.00 | Pass |
| 1. Six Children on Wednesday | 6 | Child | Wednesday | False | 72.00 | Pass |