

SDV502

Semester 2 2022

Assessment 1

Application Testing

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Test Function

Public decimal Adult_Before_5

Public decimal Adult_Before_5()

Inputs- Int - quantity, String - person, String - day, Decimal - time

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Adult	Monday Wednesday Thursday Friday Saturday Sunday	<=1700
Unacceptable	<=0	Student, senior, child	Tuesday	>1700

Test Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1.One adult, normal day, before 5	1	Adult	Monday	4	14.50	Pass
2.Two adults, Tuesday, before 5	2	Adult	Tuesday	2	-1	Pass
3.Two adults on Monday	2	Adult	Monday	4	29.00	Pass
4.Zero adults on Monday	0	Adult	Monday	4	-1	Pass
5.Four Adults on Monday	4	Adult	Monday	4	58.00	Pass
6.Four adults on Monday	4	Adult	Monday	6	-1	Pass
7.One student on Monday	1	Student	Monday	4	-1	Pass

Public decimal Adult_After_5

Public decimal Adult_After_5()

Inputs- Int - quantity, String - person, String - day, Decimal - time

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Adult	Monday Wednesday Thursday Friday Saturday Sunday	>1700
Unacceptable	<=0	Student, senior, family, child	Tuesday	<=1700

Test

Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1.One adult, normal day, before 5	1	Adult	Monday	2	14.50	Pass
2.Two adults, Tuesday, before 5	2	Adult	Tuesday	2	-1	Pass
3.Three Adults on Saturday	3	Adult	Saturday	7	52.50	Pass
4. One adult on Monday	1	Adult	Monday	6	17.50	Pass
5.One adult on Wednesday	1	Adult	Wednesday	5	17.50	Pass
6.Two adults on Friday	2	Adult	Friday	7	35.00	Pass

Public decimal Adult Tuesday

Public decimal Adult_Tuesday()

Inputs- Int - quantity, String - person, String - day, Decimal - time

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Adult	Tuesday	Any
Unacceptable	<=0	Student, senior, family, child	Monday Wednesday Thursday Friday Saturday Sunday	Null

Test Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1. One adult on Tuesday	1	Adult	Tuesday	-	13.00	Pass
2. Three adults on Tuesday	3	Adult	Tuesday	-	39.00	Pass
3. Eight adults on Tuesday	8	Adult	Tuesday	-	104.00	Pass
4. Zero Adults on Tuesday	0	Adult	Tuesday	-	-1	Pass
5. One Adult on Monday	1	Adult	Monday	-	-1	Pass
6. One Child on Tuesday	1	Child	Tuesday	-	-1	Pass

Public decimal Child_Under_16

Public decimal Child_Under_16()

Inputs- Int - quantity, String - person, String - day, Decimal - time

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Adult	Any	Any
Unacceptable	<=0	Student, senior, family, child	Null	Null

Test Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1. One Child	1	Child	-	-	12.00	Pass
2. Four children	4	Child	-	-	48.00	Pass
3. Fourteen children	14	Child	-	-	168.00	Pass
4. Zero children	0	Child	-	-	-1	Pass
5. One Adult	1	Adult	-	-	-1	Pass
6. One Adult	1	Senior	-	-	-1	Pass

- Should a single child ticket purchase be a pass? Does that mean they are able to book alone, and not with an accompanying adult ticket?

Public decimal Senior

Public decimal Senior()

Inputs- Int - quantity, String - person,

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Senior	Any	Any
Unacceptable	<=0	Adult, Student, Family, Child	Null	Null

Test Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1. One Senior	1	Senior	-	-	12.50	Pass
2. Two Seniors	2	Senior	-	-	25.00	Pass
3. Zero Seniors	0	Senior	-	-	-1	Pass
4. One Adult	1	Adult	-	-	-1	Pass

Public decimal Student

Public decimal Student()

Inputs- Int - quantity, String - person,

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Time
Acceptable	>0	Adult	Any	Any
Unacceptable	<=0	Adult, Senior, Family, Child	Null	Null

Test Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1. One student	1	Student	-	-	14.00	Pass
2. Two students	2	Student	-	-	28.00	Pass
3. Five students	5	Student	-	-	70.00	Pass
4. Fourteen students	14	Student	-	-	196.00	Pass
5. Zero Students	0	Student	-	-	-1	Pass
6. One Adult	1	Adult	-	-	-1	Pass

Public decimal Family_Pass

Family pass

Public decimal family_pass():

Inputs- int quantity_ticket, int quantity_adult, int quantity_child

Outputs - decimal total price. (expectedAmount)

Status	Qty	Number of adult + number of children
acceptable	>=4	2 adults + 2 children 1 adult + 3 children
unacceptable	<=4	Different from above

Use case	Quantity_ticket	Quantity_Adult	Quantity_Child	Time	Expected	result
1. 2 Adults and 2 children buy 1 pass	1	2	2	-	46.00	Pass
2. 1 Adults and 3 children buy 1 ticket	1	1	3	-	46.00	Pass
3. 2 Adults and 6 children buy 2 passes	2	2	6	-	92.00	Pass
4. 2 Adults and 1 child buy 1 pass	1	2	1	-	-1	Pass
5. 2 Adults and 3 children buy 1 pass	1	2	3	-	-1	Pass
6. 2 Adults and 2 children buy 2 passes	2	2	2	-	-1	Pass
7. 1 Adult, 2 Children	1	1	2	-	-1	Pass
8. 3 Adults, One Child	1	3	1	-	-1	Pass

Issues encountered with family test cases:

Would not accept 2 passes for the family ticket being entered at one time. E.g. 2 tickets, 2 adults and 6 children. The function would not accept more than 1 family pass, This could potentially be worked around by processing one family pass at a time, but the website does currently accept 2 passes.

Public Decimal Chick_Flick_Thursday

Public decimal Chick_Flick_Thursday()

Inputs- int quantity, string person, string day

Outputs - decimal - total price. (expectedAmount)

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

Test

Schedule / Scenarios

Use case	Qty	Person	Day	Time	Expected	result
1. One adult on Thursday	1	Adult	Thursday	-	21.50	Pass
2. Two adults on Thursday	2	Adult	Thursday	-	43.00	Pass
3. Zero adults on Thursday	0	Adult	Thursday	-	-1	Pass
4. One Child on Thursday	1	Child	Thursday	-	-1	Pass
5. One Adult on Tuesday	1	Adult	Tuesday	-	-1	Pass
6. Three adults on Thursday	3	Adult	Thursday	-	64.50	Pass
7. Eight adults on Thursday	8	Adult	Thursday	-	172.00	Pass

*Do I need to add some fails

Public Decimal Kids_Careers

Public decimal Kids_Careers()

Inputs- int quantity, string day, bool holiday

Outputs - decimal - total price. (expectedAmount)

Status	Quantity	Person	Day	Holiday
Acceptable	>0	Child	Wednesday	False
Unacceptable	<=0	Student, senior, child	Monday Tuesday Thursday Friday Saturday Sunday	True

Test Schedule / Scenarios

Use case	Qty	Day	Holiday	Expected	result
1. One child on Wednesday	1	Wednesday	False	12.00	Pass
2. Three Children on Wednesday	3	Wednesday	False	36.00	Pass
3. Five Children on Wednesday	5	Wednesday	False	60.00	Pass
4. Zero children on Wednesday	0	Wednesday	False	-1	Pass
5. One Child on Thursday	1	Thursday	False	-1	Pass
6. One child on Wednesday	1	Wednesday	true	-1	Pass
7. One child on Thursday	1	Thursday	True	-1	Pass