

Informatics 43 - Homework 2

Notes to help understand the following testing matrices.

Format for Use Case 1:

1. {date/time}
2. {team1Name}
3. {team2Name}
4. {textual description}
5. {RegisteredTeams}

Format for Date/Time for Use Case 1: {month}{day}, {startingTime}-{endingTime}{am/pm}

RegisteredTeams = {Emerald Energizers, Ruby Rockets, Sapphire Stars, Topaz Twisters, Diamond Dominators}

SampleDescriptionText = 'Match is prone to cancellation due to Memorial Day weekend'

Format for Use Case 2:

1. {list of prices of items in cart}
2. {shipping zone}
3. {coupon discount percentage}

Matrix 1

Function being tested: Use Case 1: Schedule match

Basis: Date/Time Entry

Subdomains	Test Case Input Data	Expected Output
Blank Entry (Checks whether date/time entry is made or not)	1. May 28, 12-3 pm 2. Ruby Rockets 3. Topaz Twisters 4. SampleDescriptionText 5. RegisteredTeams	Match successfully scheduled
	1. 2. Ruby Rockets 3. Topaz Twisters 4. SampleDescriptionText 5. RegisteredTeams	Error
	1. 2. 3. 4. 5. RegisteredTeams	Error
Incomplete Entry (Checks whether the entry for the data/time is completed as per the format)	1. May 28 2. Topaz Twisters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Incomplete Date Entry
	1. 12-3 pm 2. Topaz Twisters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Incomplete Date Entry
Incorrect Entry Format (Checks whether entry made is in accordance with specified format)	1. 4/28/2018: 12:00 pm – 3:00 pm 2. Topaz Twisters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Incorrect Entry Format Error
	1. 12:00 – 15:00 pm, 28 th May 2. Topaz Twisters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Incorrect Entry Format Error

Matrix 2

Function being tested: Use Case 1: Schedule match

Basis: Team Names Entry

Subdomains	Test Case Input Data	Expected Output
Blank Entry (Checks whether entry for both teams is made or not)	1. May 28, 12-3 pm 2. 3. Topaz Twisters 4. SampleDescriptionText 5. RegisteredTeams	Error
	1. May 28, 12-3 pm 2. Ruby Rockets 3. 4. SampleDescriptionText 5. RegisteredTeams	Error
	1. May 28, 12-3 pm 2. 3. 4. SampleDescriptionText 5. RegisteredTeams	Error
Teams are both registered	1. May 28, 12-3 pm 2. Topaz Twisters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Match successfully scheduled
	1. April 29th, 4-7 pm 2. Sapphire Stars 3. Emerald Energizers 4. 5. Registered Teams	Match successfully scheduled
Team not found if either both or one of them isn't registered (Checks whether both teams are registered)	1. May 28, 12-3 pm 2. Diamond Cutters 3. Opal Oracles 4. SampleDescriptionText 5. RegisteredTeams	Team(s) not found
	1. May 28, 12-3 pm 2. Diamond Cutters 3. Ruby Rockets 4. SampleDescriptionText 5. RegisteredTeams	Team not found

	<ol style="list-style-type: none">1. May 28, 12-3 pm2. Topaz Twisters3. Opal Oracles4. SampleDescriptionText5. RegisteredTeams	Team not found
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Matrix 3

Function being tested: Use Case 1: Schedule match

Basis: Length of textual description entry

Subdomains	Test Case Input Data	Expected Output
0 – 33 characters	<ol style="list-style-type: none">1. May 28, 12-3 pm2. Ruby Rockets3. Topaz Twisters4.5. RegisteredTeams	Match successfully scheduled
	<ol style="list-style-type: none">1. May 28, 12-3 pm2. Ruby Rockets3. Topaz Twisters4. Final League 3 Match5. RegisteredTeams	Match successfully scheduled
34 – 66 characters	<ol style="list-style-type: none">1. April 29, 12-3 pm2. Ruby Rockets3. Sapphire Stars4. Semi-Final match for Under 19 league5. RegisteredTeams	Match successfully scheduled
	<ol style="list-style-type: none">1. May 15, 4-6 pm2. Sapphire Stars3. Emerald Energizers4. Match is prone to cancellation due to Memorial Day weekend5. RegisteredTeams	Match successfully scheduled
67 – 100 characters	<ol style="list-style-type: none">1. June 2, 5-8 pm2. Ruby Rockets3. Emerald Energizers4. Match scheduled for the first year club anniversary on June 2nd,2018 during the celebration programs5. RegisteredTeams	Match successfully scheduled
	<ol style="list-style-type: none">1. August 4, 3-6 pm2. Topaz Twisters3. Sapphire Stars4. This match between the Sapphire Stars and Topaz Twisters is scheduled for August 4th5. RegisteredTeams	Match successfully scheduled

Matrix 4

Function being tested: Use Case 2: Calculate total for online store

Basis: Number of items in shopping cart

Subdomains	Test Case Input Data	Expected Output
1 – 4 items	1. \$2, \$2.50, \$3, \$3.50 2. 1 3. 0% coupon discount	\$13.10
	1. \$10 2. 4 3. 50% coupon discount	\$9.50
5 – 9 items	1. \$10, \$15, \$20, \$25, \$30 2. 2 3. 25% coupon discount	\$84.50
	1. \$10, \$20, \$30, \$40, \$50, \$60, \$70 2. 3 3. 10% coupon discount	\$280.20
10+ items	1. \$5, \$10, \$15, \$20, \$25, \$30, \$35, \$40, \$45, \$50 2. 3 3. 20% coupon discount	\$245.00
	1. \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10, \$10 2. 4 3. 40% coupon discount	\$235.00

Matrix 5

Function being tested: Use Case 2: Calculate total for online store

Basis: Shipping Zone

Subdomains	Test Case Input Data	Expected Output
Zone 1	1. \$40, \$60 2. 1 3. 0% discount	\$111.00
	1. \$50, \$50, \$80, \$150 2. 1 3. 50% discount	\$182.50
Zone 2	1. \$100 2. 2 3. 30% discount	\$79.00
	1. \$5, \$5, \$10, \$10, \$20, 2. 2 3. 25% discount	\$43.25
Zone 3	1. \$200, \$100, \$200 2. 3 3. 35% discount	\$360.5
	1. \$400, \$70, \$30, \$10, \$50, \$40 2. 3 3. 15% discount	\$564.00
Zone 4	1. \$100, \$100, \$100, \$100 2. 4 3. 5% discount	\$422.00
	1. \$70, \$80, \$50 2. 4 3. 45% discount	\$125.00

Matrix 6

Function being tested: Use Case 2: Calculate total for online store

Basis: Percentage of Coupon Discount

Subdomains	Test Case Input Data	Expected Output
0% – 14%	1. \$24, \$66 2. 1 3. 0% discount	\$100.00
	1. \$50, \$150, \$250 2. 4 3. 10% discount	\$449.50
15% - 34%	1. \$300, \$200, \$20, \$10, \$20 2. 3 3. 15% discount	\$517.25
	1. \$100 2. 2 3. 25% discount	\$84.50
35% - 50%	1. \$300, \$500, \$40, \$60 2. 1 3. 40% discount	\$595.00
	4. \$400, \$80, \$30, \$20, \$40, \$40 5. 3 6. 50% discount	\$338.50