Test Case #	Test Goal	Input Data	Expected Output
1	Tests printing out an empty list.	 Input Tab 3: [Print List] Input Tab 3: [Print by Name] Input Tab 3: [Print by Date] 	1. Output: Error message that states that there is nothing in the roster 2. Output: Error message that states that there is nothing in the roster 3. Output: Error message that states that there is nothing in the roster
2	Tests adding students.	1. Input Tab 1: [Name] John Doe [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 1: [Name] Bob McBob [Major] IT [NonResident][Internati onal] [Credit] 15 3. Input Tab 1: [Name] Joe Mama [Major] EE [NonResident][Internati onal][Study Abroad] [Credit] 12 [Add Student] 4. Input Tab 1: [Name] Sunny McSunnyface [Major] BA [Resident] [Credit] 10 [Add Student]	1. Output: Message that states that student was added. 2. Output: Message that states that student was added. 3. Output: Message that states that states that states that stadent was added. 4. Output: Message that states that student was added. 4. Output: Message that states that
3	Tests adding a duplicate student.	1. Input Tab 1: [Name] John Doe [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 1: [Name] John Doe [Major] CS [Resident] [Credit] 18	1. Output: Message that states that student was added. 2. Output: Error message that

		[Add Student]	states that the student is already in the roster.
4	Tests adding a student with missing data values.	1. Input Tab 1: [Name] Bob Doe [NonResident][Tristate] [New York] [Credit] 18 2. Input Tab 1: [NonResident][Tristate] [New York] [Credit] 18	 Output: Error message that states that there is missing data. Output: Error message that states that there is missing data.
5	Tests removing a nonexistent student.	1. Input Tab 1: [Name] Ben Neb [Major] EE [Remove Student]	Output: Error message that states student does not exist.
6	Tests removing a student with missing data values.	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 2: [Major] CS [Remove Student]	 Output: Message that states that student was added. Output: Error message that states that there is missing data.
7	Tests removing a student that exists in the roster.	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 2: [Name] Joe Mama [Major] CS [Remove Student]	 Output: Message that states that student was added. Output: Message that states that student was removed.
8	Tests printing the list of students.	1. Input Tab 1: [Name] John Doe [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 1: [Name] Bob McBob [Major] IT	1. Output: Message that states that student was added. 2. Output:

		[NonResident][International] [Credit] 15 3. Input Tab 1: [Name] Sunny McSunnyface [Major] BA [Resident] [Credit] 10 [Add Student] 4. Input Tab 3: [Print List] 4. Input Tab 3: [Print List] 4. Output: Bob McBob:IT:1 Credit Hours:Tu Due:0.00:Total Payment:0.00:L Payment Date://:Resident Sunny McSunnyface:B Credit Hours:Tu Due:0.00:Total Payment:0.00:L Payment Date://:Resident Sunny McSunnyface:B Credit Hours:Tu Due:0.00:Total Payment:0.00:L Payment Date://:Resident Sunny McSunnyface:B Credit Hours:Tu Due:0.00:Total Payment:0.00:L Payment Date://:Resident Payment:0.00:L Payment Date://:Resident	e that hat hat was 15 hition ast dent:I 8 hition ast A:10 hition ast
9	Tests calculating the tuition.	1. Input Tab 1: [Name] John Doe [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 1: [Name] Bob McBob [Major] IT [NonResident][International] [Credit] 15 3. Input Tab 1: [Name] Sunny McSunnyface [Major] BA [Resident] [Credit] 10 [Add Student] 4. Input Tab 3: [Calculate Tuition] 1. Output: Message states the student added. 3. Output: Message states the student added. 4. Message states the calculate	e that hat was e that hat was e that was e that was

			complete.
10	Test paying tuition with missing data.	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 2: [Name] Joe Mama [Payment Amount] 10 [Payment Date] 1/1/2021 [Pay]	 Output: Message that states that student was added. Output: Error message that states that there is missing data.
11	Test paying tuition with a nonexistent student.	1. Input Tab 2: [Name] Joe Mama [Payment Amount] 10 [Payment Date] 1/1/2021 [Pay]	Output: Error message that states that the student is not in the roster.
12	Test paying tuition with invalid payment amount.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] Input Tab 2: [Name] Joe Mama [Payment Amount] -10 [Payment Date] 1/1/2021 [Pay] 	 Output: Message that states that student was added. Output: Error message that states that the payment amount is invalid.
13	Test paying tuition with future date.	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 2: [Name] Joe Mama [Payment Amount] 10 [Payment Date] 12/1/2021 [Pay]	 Output: Message that states that student was added. Output: Error message that states that the date is invalid.
14	Test paying tuition with past date.	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 2: [Name] Joe Mama [Payment Amount] 10 [Payment Date] 12/1/2022 [Pay]	 Output: Message that states that student was added. Output: Error message that states that the date is invalid.

15	Tests overpaying tuition.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] Input Tab 2: [Name] Joe Mama [Payment Amount] 100000000 [Payment Date] 1/1/2021 [Pay] 	 Output: Message that states that student was added. Output: Error message that states that the payment amount is over the total amount due.
16	Test paying tuition successfully.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] Input Tab 2: [Name] Joe Mama [Payment Amount] 1000 [Payment Date] 1/1/2021 [Pay] 	 Output: Message that states that student was added. Output: Message that states that payment was applied.
17	Tests printing by date	1. Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] 2. Input Tab 1: [Name] Bob Bob [Major] CS [Resident] [Credit] 10 [Add Student] 3. Input Tab 2: [Name] Joe Mama [Payment Amount] 1000 [Payment Date] 1/1/2021 [Pay] 4. Input Tab 2: [Name] Bob Bob [Payment Amount] 1000 [Payment Date] 2/1/2021 [Pay] 5. Input Tab 3: [Print by Date]	1. Output: Message that states that student was added. 2. Output: Message that states that student was added. 3. Output: Message that states that payment was applied. 4. Output: Message that states that payment was applied. 4. Output: Message that states that payment was applied. 5. Joe Mama:CS:18 Credit Hours:Tuition Due:15612.00:Total Payment:1000.00:La st Payment Date:

			1/1/2021:Resident Bob Bob:CS:10: Credit Hours:Tuition Due:14804.00:Total Payment:1000.00:La st Payment Date: 1/1/2021:Resident
18	Tests updating study abroad for an international student.	1. Input Tab 1: [Name] Bob McBob [Major] IT [NonResident][Internati onal][Study Abroad] [Credit] 15 [Add Student] 2. Input Tab 2: [Name] Bob McBob [Major] IT [Enroll in Study Abroad Program]	1. Output: Message that states that student was added. 2. Output: Message that states that tuition was updated.
19	Tests updating study abroad for a student that is not international.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] Input Tab 2: [Name] Joe Mama [Major] CS [Enroll in Study Abroad Program] 	1. Output: Message that states that student was added. 2. Output: Message that states that the international student could not be found.
20	Tests giving financial aid for a nonexistent student.	Input Tab 2: [Name] John Financial [Major] IT [Financial Aid Amount] 10 [Set]	Output: Error message that states that student is not in the roster.
21	Tests giving missing financial aid amount	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 18 [Add Student] Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] -10 [Set] 	1. Output: Message that states that student was added. 2. Output: Error message that states the amount is invalid.
22	Tests giving financial aid amount to part	Input Tab 1: [Name] Joe Mama [Major] CS	Output: Message that

	time students.	[Resident] [Credit] 5 [Add Student] 2. Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] 10 [Set]	2.	states that student was added. Output: Error message that states that part time students are not allowed to have financial aid.
23	Tests giving financial aid amount to non residents students.	 Input Tab 1: [Name] Joe Mama [Major] CS [NonResident] [Credit] 15 [Add Student] Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] 10 [Set] 		Output: Message that states that student was added. Output: Error message that states that only residents can have financial aid.
24	Tests giving financial aid successfully.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 15 [Add Student] Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] 10 [Set] 		Output: Message that states that student was added. Output: Message that states tuition was updated.
25	Tests giving financial aid twice.	 Input Tab 1: [Name] Joe Mama [Major] CS [Resident] [Credit] 15 [Add Student] Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] 10 [Set] Input Tab 2: [Name] Joe Mama [Major] CS [Financial Aid Amount] 10 [Set] 	1. 2. 3.	Output: Message that states that student was added. Message that states tuition was updated. Output: Error message that states that Student cannot receive financial aid twice.