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Smallberg

CS31

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Project 2 - Report

I had difficulty figuring out the logic behind the pricing of the tickets with the if statements and the and/or logic gates. Although it was not a requirement, I struggled with separating the program into multiple functions. I didn’t know how to terminate the program, by returning -1, when an incorrect input was typed.

Here is the list of test cases that I used to test my program.

|  |  |  |
| --- | --- | --- |
| **Age** | **Student** | **Number of Zones Crossed** |
| Minor | Y | 0 |
| Minor | Y | 1 |
| Minor | Y | >1 |
| Over 18 | Y | 0 |
| Over 18 | Y | 1 |
| Over 18 | Y | >1 |
| Over 18 | N | 0 |
| Over 18 | N | >0 |
| Senior | N | 0 |
| Senior | N | >0 |
| Senior | Y | 0 |
| Senior | Y | 1 |
| Senior | Y | >1 |
| -1 | Any | Any |
| Any | Not ‘y’ or ‘n’ | Any |
| Any | Any | -1 |

I ran into errors, such as forgetting to put an error case on the number of zones crossed and having incorrect logic in the price calculations, thus producing an incorrect fare.