

Exceptions & Limitations

- Prevent IndexOutOfBoundsException - Input must be a number when prompting for an enrollment number
- Prevent NumberFormatException - Enrollment numbers inputted in the program must be greater than 0 and within the initial range of students submitted from file
- Student wait times cannot be negative
- Column titles in files must be Enrollment, First name, Last name, Wait, or Connection [1-5]
- Prevent Exception - Print error message if file cannot be found or read

Test Cases

- Run program
- Enter “menu” to see menu
- Enter various invalid inputs from menu - “”, “-1”, “6”, “0”, “1.5”, “hgdgfh”, “cancel”
- Enter “1”, then enter “cancel” for each subsequent prompt to cancel operations (repeat for “2” through “5”)
- Enter “1”, then enter various invalid inputs for each subsequent prompt - “”, “-1”, “1.5”, “1000000” (when prompted for enrollment number), “hgdgfh” (repeat for “2” through “5”)
- Enter “1”, then enter a valid enrollment number to view student info
- Enter “2”, then enter 2 valid enrollment numbers to view shortest path
- Enter “3”, then enter 2 valid enrollment numbers to remove a connection
- Try to remove a connection between 2 students who weren’t connected
- Remove a connection, then try to remove the same connection
- Enter “4”, then enter a nonnegative integer to adjust wait time for a student
- Remove connection(s) and/or change wait time(s), then view student info again to verify accurate changes
- Remove connection(s) and/or change wait time(s), then view shortest path again to verify accurate changes
- Enter “5” to print the full list of students and their information
- Enter “exit” to exit program