

## Assignment Eleven – Expected Program Behavior for Running the Sudoku TreeSet

### *Expected Program Exceptions Behaviors For Constructor:*

run:

Welcome to the Sudoku Solution Helper Program 1.0!

Sudoku Solution Helper Main Menu:

- ```
-----
1. Display Puzzle
2. Display Remaining Moves For A Cell
3. Generate Solution Help
4. Load Puzzle
5. Test Sudoku Board and Solution Helper
6. Run Playground
7. Quit Program
-----
```

Enter menu selection (1 - 7): 4

Listing Input Directory Contents

- ```
-----
1. puzzle4x4.txt
2. puzzle9x9.txt
3. puzzleBig.txt
4. puzzleBigEmpty.txt
5. puzzleEmpty.txt
6. puzzleExample.txt
7. puzzleInvalidCell.txt
8. puzzleInvalidLineLength.txt
9. puzzleInvalidLinesLong.txt
10. puzzleInvalidLinesShort.txt
11. puzzleInvalidSize.txt
12. puzzleSolved.txt
13. testingPuzzle4x4.txt
-----
```

Enter the file name with extension: noPuzzleHere

ERROR: File Not Loaded

java.io.FileNotFoundException: SudokuBoard: File input/noPuzzleHere was not found or could not be opened!

Sudoku Solution Helper Main Menu:

1. Display Puzzle
2. Display Remaining Moves For A Cell
3. Generate Solution Help
4. Load Puzzle
5. Test Sudoku Board and Solution Helper
6. Run Playground
7. Quit Program

-----  
Enter menu selection (1 - 7): 4

Listing Input Directory Contents

- 
1. puzzle4x4.txt
  2. puzzle9x9.txt
  3. puzzleBig.txt
  4. puzzleBigEmpty.txt
  5. puzzleEmpty.txt
  6. puzzleExample.txt
  7. puzzleInvalidCell.txt
  8. puzzleInvalidLineLength.txt
  9. puzzleInvalidLinesLong.txt
  10. puzzleInvalidLinesShort.txt
  11. puzzleInvalidSize.txt
  12. puzzleSolved.txt
  13. testingPuzzle4x4.txt

Enter the file name with extension: puzzleInvalidLinesShort.txt

ERROR: File Not Loaded

ERROR: Illegal Argument Detected

java.lang.IllegalArgumentException: SudokuBoard: 4 lines in file is incorrect!

Sudoku Solution Helper Main Menu:

- 
1. Display Puzzle
  2. Display Remaining Moves For A Cell
  3. Generate Solution Help
  4. Load Puzzle
  5. Test Sudoku Board and Solution Helper
  6. Run Playground
  7. Quit Program
- 

Enter menu selection (1 - 7): 4

#### Listing Input Directory Contents

- 
1. puzzle4x4.txt
  2. puzzle9x9.txt
  3. puzzleBig.txt
  4. puzzleBigEmpty.txt
  5. puzzleEmpty.txt
  6. puzzleExample.txt
  7. puzzleInvalidCell.txt
  8. puzzleInvalidLineLength.txt
  9. puzzleInvalidLinesLong.txt
  10. puzzleInvalidLinesShort.txt
  11. puzzleInvalidSize.txt
  12. puzzleSolved.txt
  13. testingPuzzle4x4.txt

Enter the file name with extension: puzzleInvalidLinesLong.txt

ERROR: File Not Loaded

ERROR: Illegal Argument Detected

java.lang.IllegalArgumentException: SudokuBoard: 6 lines in file is incorrect!

#### Sudoku Solution Helper Main Menu:

- 
1. Display Puzzle
  2. Display Remaining Moves For A Cell
  3. Generate Solution Help
  4. Load Puzzle
  5. Test Sudoku Board and Solution Helper
  6. Run Playground
  7. Quit Program
- 

Enter menu selection (1 - 7): 4

#### Listing Input Directory Contents

- 
1. puzzle4x4.txt
  2. puzzle9x9.txt
  3. puzzleBig.txt
  4. puzzleBigEmpty.txt
  5. puzzleEmpty.txt
  6. puzzleExample.txt

7. puzzleInvalidCell.txt
8. puzzleInvalidLineLength.txt
9. puzzleInvalidLinesLong.txt
10. puzzleInvalidLinesShort.txt
11. puzzleInvalidSize.txt
12. puzzleSolved.txt
13. testingPuzzle4x4.txt

Enter the file name with extension: puzzleInvalidCell.txt

ERROR: File Not Loaded

ERROR: A Value Was Not An Integer

java.lang.NumberFormatException: SudokuBoard: Board cell (3, 3) value of "B" is not an integer!

Sudoku Solution Helper Main Menu:

- 
1. Display Puzzle
  2. Display Remaining Moves For A Cell
  3. Generate Solution Help
  4. Load Puzzle
  5. Test Sudoku Board and Solution Helper
  6. Run Playground
  7. Quit Program
- 

Enter menu selection (1 - 7): 4

Listing Input Directory Contents

- 
1. puzzle4x4.txt
  2. puzzle9x9.txt
  3. puzzleBig.txt
  4. puzzleBigEmpty.txt
  5. puzzleEmpty.txt
  6. puzzleExample.txt
  7. puzzleInvalidCell.txt
  8. puzzleInvalidLineLength.txt
  9. puzzleInvalidLinesLong.txt
  10. puzzleInvalidLinesShort.txt
  11. puzzleInvalidSize.txt
  12. puzzleSolved.txt
  13. testingPuzzle4x4.txt

Enter the file name with extension: puzzleInvalidLineLength.txt

```
ERROR: File Not Loaded
ERROR: Illegal Argument Detected
java.lang.IllegalArgumentException: SudokuBoard: Line 4 length of 5 is incorrect!
```

Sudoku Solution Helper Main Menu:

- 
1. Display Puzzle
  2. Display Remaining Moves For A Cell
  3. Generate Solution Help
  4. Load Puzzle
  5. Test Sudoku Board and Solution Helper
  6. Run Playground
  7. Quit Program
- 

Enter menu selection (1 - 7): 4

Listing Input Directory Contents

- 
1. puzzle4x4.txt
  2. puzzle9x9.txt
  3. puzzleBig.txt
  4. puzzleBigEmpty.txt
  5. puzzleEmpty.txt
  6. puzzleExample.txt
  7. puzzleInvalidCell.txt
  8. puzzleInvalidLineLength.txt
  9. puzzleInvalidLinesLong.txt
  10. puzzleInvalidLinesShort.txt
  11. puzzleInvalidSize.txt
  12. puzzleSolved.txt
  13. testingPuzzle4x4.txt

Enter the file name with extension: puzzleInvalidSize.txt

```
ERROR: File Not Loaded
ERROR: Illegal Argument Detected
java.lang.IllegalArgumentException: SudokuBoard: Board size 7 is not a perfect square number!
```

Sudoku Solution Helper Main Menu:

- 
1. Display Puzzle
  2. Display Remaining Moves For A Cell
  3. Generate Solution Help

- 4. Load Puzzle
- 5. Test Sudoku Board and Solution Helper
- 6. Run Playground
- 7. Quit Program

-----  
Enter menu selection (1 - 7): 7

Thanks for using the Sudoku Solution Helper Program 1.0!  
BUILD SUCCESSFUL (total time: 1 minute 6 seconds)