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| --- | --- | --- | --- | --- | --- |
| **LEARNING PROFILE FOR ASSIGNMENT#\_1\_\_\_\_\_ AND QUESTION#\_7\_\_\_\_\_\_\_** | | | | | |
| *Name* | *:* | *Steven Morrissey* | *Due Date* | *:* |  |
| *Student ID* | *:* | *3300222* | *Submission Date* | *:* |  |

**1. Problem Statement:**

Write a program that reads in a number from the user and then displays the Hailstone sequence for that number, followed by a line showing the number of steps taken to reach 1.

**2. Description of the Code:**

Implemented hailstone sequence using arraylist to store the numbers and keeping track in a variable called total.

**3. Errors and Warnings:**

Table 1: List of Errors and Warnings Encountered in the Program

|  |  |  |  |
| --- | --- | --- | --- |
| **#** | **Errors / Warnings** | **Details** | **How I solved them** |
| 1 | E1 | ArrayIndedOutOfBoundsException | I didn’t notice that I hadn’t assigned an initial value then tried to access size()-1. Solved itself as I changed my implementation. |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |

**4. Sample Input and Output:**

**Case 1: Given an initial integer of X, the hailstone sequence and number of steps taken is printed out.**

**5. Discussion:**

**This was fairly straight forward, nothing noteworthy to discuss.**