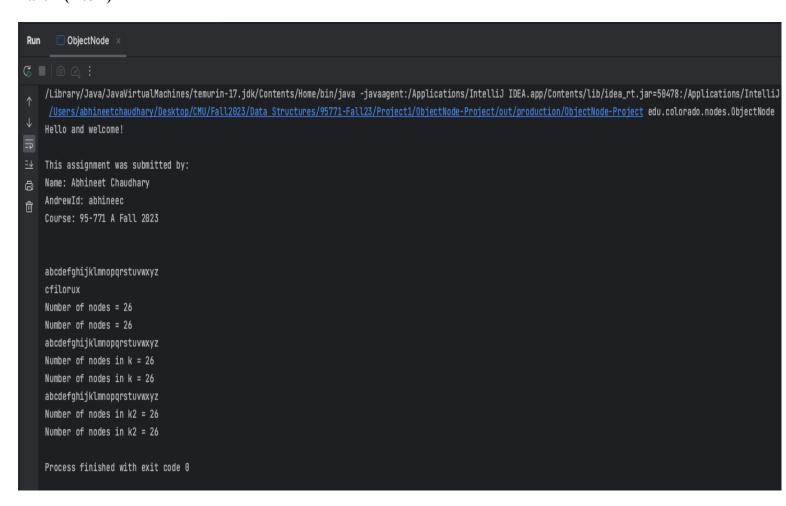
Data Structures & Algorithm for Information Processing 95-771 A
Prof. Michael Mccarthy
Fall 2023
Project 1

**Submitted by:** 

**Abhineet Chaudhary andrewID: abhineec** 

# Part 1 (1 to 7)



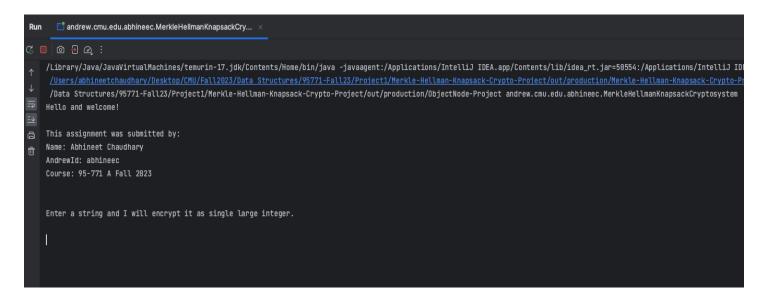
### Part 1 (8 and 9)

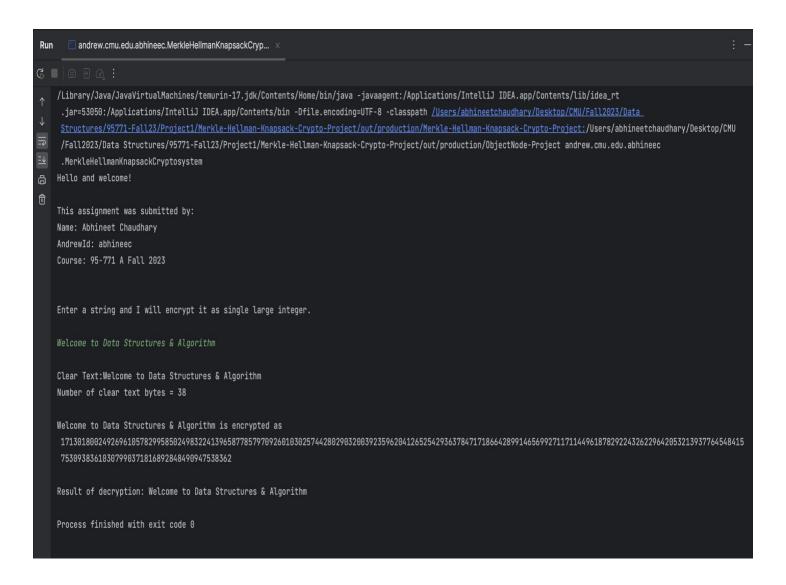


### Part 1 (10)

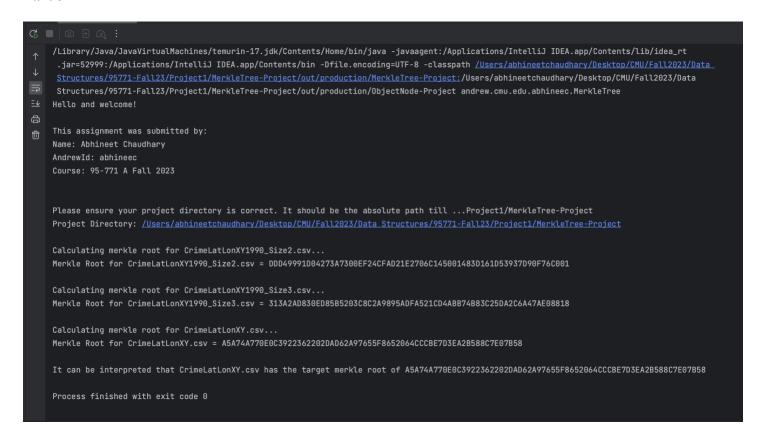
```
Run
         OrderedLinkedListOfIntegers
   /Library/Java/JavaVirtualMachines/temurin-17.jdk/Contents/Home/bin/java -javaagent:/Applications/IntelliJ IDEA.app/Contents/lib/idea_rt.jar=58523:/Applications/IntelliJ IDEA.app/Contents/bin
     /Users/abhineetchaudhary/Desktop/CMU/Fall2023/Data Structures/95771-Fall23/Project1/ObjectNode-Project/out/production/ObjectNode-Project andrew.cmu.edu.abhineec.OrderedLinkedListOfIntegers
    Hello and welcome!
   This assignment was submitted by:
   Name: Abhineet Chaudhary
8
    AndrewId: abhineec
    Course: 95-771 A Fall 2023
    First List Numbers added:83, 39, 71, 40, 73, 36, 68, 96, 93, 37, 9, 70, 46, 36, 99, 87, 87, 47, 39, 65,
    9, 36, 36, 37, 39, 39, 40, 46, 47, 65, 68, 70, 71, 73, 83, 87, 87, 93, 96, 99,
    Second List Numbers added: 79, 59, 68, 77, 50, 78, 42, 73, 39, 46, 82, 87, 63, 72, 14, 36, 34, 75, 38, 85,
    14, 34, 36, 38, 39, 42, 46, 50, 59, 63, 68, 72, 73, 75, 77, 78, 79, 82, 85, 87,
    9, 14, 34, 36, 36, 36, 37, 38, 39, 39, 39, 40, 42, 46, 46, 47, 50, 59, 63, 65, 68, 68, 70, 71, 72, 73, 73, 75, 77, 78, 79, 82, 83, 85, 87, 87, 87, 93, 96, 99,
    Process finished with exit code \theta
```

#### Part 2





### Part 3



## **References:**

- 1. https://www.geeksforgeeks.org/java-math-random-method-examples/
  - a. Used to generate random values for W and B lists in Part 2
- 2. <a href="https://stackoverflow.com/questions/31342689/how-do-i-use-classes-from-another-project-in-intellij-idea">https://stackoverflow.com/questions/31342689/how-do-i-use-classes-from-another-project-in-intellij-idea</a>
  - a. Used to add ObjectNode-Project as a dependency module in IntelliJ
- 3. <a href="https://www.geeksforgeeks.org/largest-number-less-than-or-equal-to-n-2-which-is-coprime-to-n/">https://www.geeksforgeeks.org/largest-number-less-than-or-equal-to-n-2-which-is-coprime-to-n/</a>
  - a. Derived my own solution based on the ideas discussed in this article
- 4. https://www.w3schools.com/java/
  - a. To refer common java functions or syntax