Progress Report

Mohamed Elsayed Amin

20011502

I acknowledge that I am aware of the academic integrity guidelines of this course, and that I worked on this assignment independently without any unauthorized help.

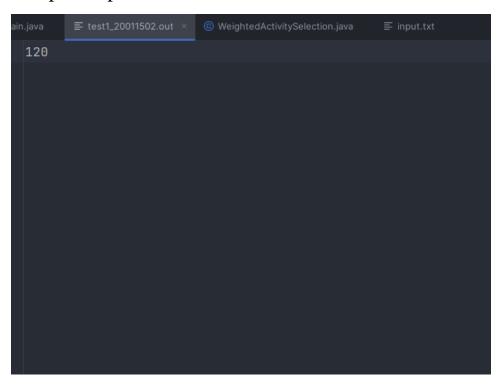
Part 1 - Weighted Activity Selection (20%)

The problem is solved in $O(n \log n)$

Sample input:

```
1 3 50
2 4 10
3 5 40
3 6 70
```

Sample output:



Running JAR:

```
mohamed@MAmin:~/CSED_25/Year_3/Algo/My_Sheets/sheet_7_java$ java -jar activity_20011502.jar
The format should be : activity_20011502.jar absolute_path_to_input_file

mohamed@MAmin:~/CSED_25/Year_3/Algo/My_Sheets/sheet_7_java$ java -jar activity_20011502.jar /home/mohamed/CSED_25/Year_3/Algo/My_Sheets/sheet_7_java/input
txt
120
```

Part 2 - Huffman's Algorithm (80%)

Done:

- Done with the data structures and file parsing.
- Done with frequencies of n-byte word.
- Done with constructing Huffman tree.
- Done with writing the word-code List into the file.
- Testing most of code using
 - o xxd -b input.in command to view binary data in bits:

o xxd -b input.in | grep -o '11011101' | wc -l command for fetching the frequency of specific byte

Github Gist