

COMP 110 Object-Oriented Programming

Assignment 1 – Most Frequent Numbers

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Algorithm Explanation

In this assignment, I have taken a data file and calculated the most frequent numbers. The details of my algorithm are explained below.

First of all this code takes an txt format data file. Code has loadNumbers method it takes numbers from data file and puts into the array which has same length with the numbers of lines in data file. Secondly code has computeFrequency method it calculate the frequency with using hashing algorithm. Finally it displays the most frequent number.

Sample Outputs

In this section, I provide outputs of my program. In Box 1, display output is given when we use “data1.txt”

```
Box 1. Sample Program Output

File is available
Most Frequent Numbers:
Number: 267, Frequency: 11
```

In this section, I provide outputs of my program. In Box 2, display output is given when we use “data2.txt”

```
Box 2. Sample Program Output

File is available
Most Frequent Numbers:
Number: 28, Frequency: 26
Number: 31, Frequency: 26
Number: 35, Frequency: 26
```

In this section, I provide outputs of my program. In Box 3, display output is given when we use “someData.txt”

```
Box 3. Sample Program Output

someData.txt : Input file can not be found
The program is closing...
```

