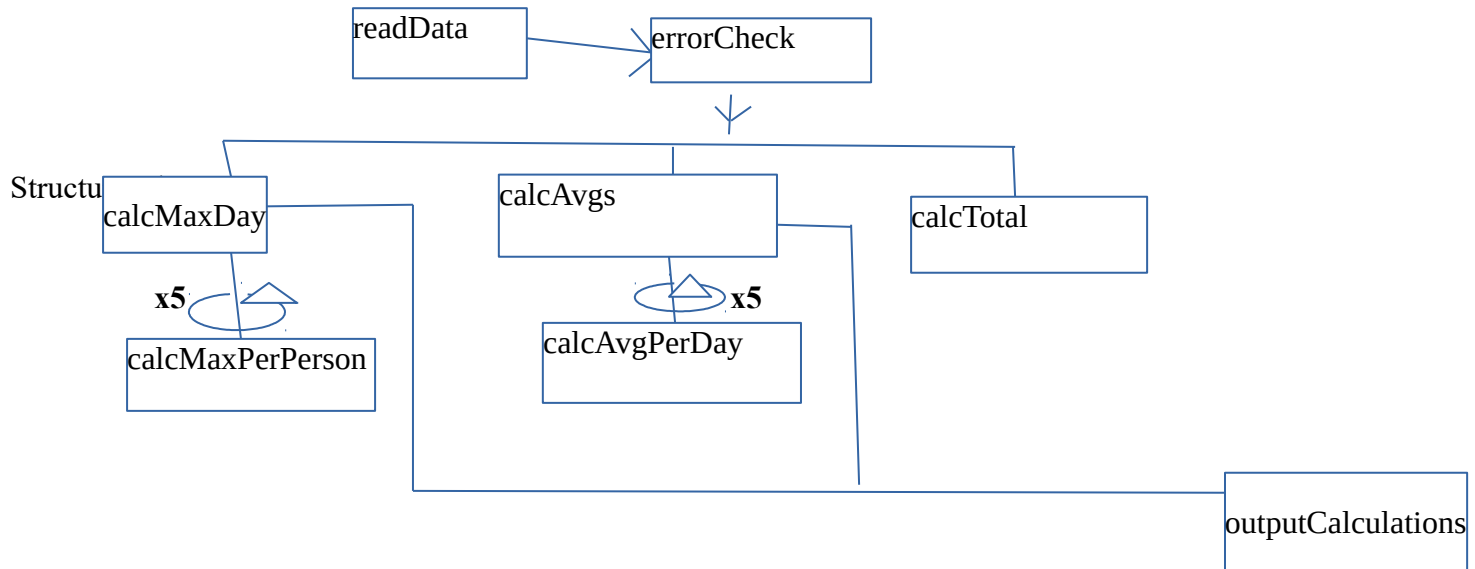


CSC 250 – Program Design Document



Function Design (give the prototype and a short description for each function)

```
void readData(int[][DAYS]); //reads the input data from ex_data.txt
void errorCheck(int[][DAYS]); // check the input data for errors and zero any out
void calcMaxDay(int[][DAYS], int[]); // calculates the peak exercise day for each
//person, index of day stores in int[]
void calcAvg(int[][DAYS], int[]); // calculates the average exercise per day per
//person, average value stored in int[] of respective indexes
int calcTotal(int[][DAYS]); //returns the total exercise done by all of the people
//throughout the week
int calcMaxDayPerPerson(int[]); //calculates the total exercise for the week for one
//person and returns it
int calcAvgPerDay(int[]); // calculates the avg exercise per person on any one day and
//returns it
void outputCalculations(int[], int[], int[], total); // prints to the screen the peak
//exercise day for each person,
// the average minutes of exercise per day for the group,
// and the total minutes of exercise for the week
```

Time Estimate

| | Estimated Time | Actual Time |
|--|----------------|-------------|
| Program Design | <u>20</u> | |
| (list each function name and the time required to code each) | | |
| <u>readData()</u> | <u>5</u> | |
| <u>errorCheck()</u> | <u>3</u> | |
| <u>calcMaxDay()</u> | <u>10</u> | |
| <u>calcAvg()</u> | <u>3</u> | |
| <u>calcTotal()</u> | <u>3</u> | |
| <u>calcMaxDayPerPerson()</u> | <u>10</u> | |
| <u>calcAvgPerDay()</u> | <u>5</u> | |
| <u>outputCalculations()</u> | <u>10</u> | |
| Program Test | <u>10</u> | |
| Total Time | <u>79</u> | |