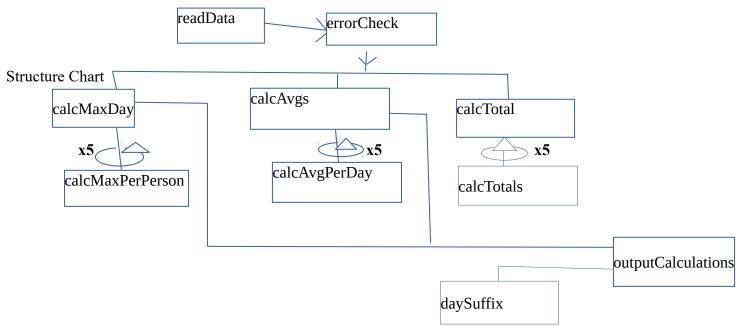
CSC 250 - Program Design Document



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

```
string daySuffix(int); // returns the suffix of the day based on index (index 1 is the
second day -> returns "nd" from "2nd")
void calcTotals(int[][DAYS], int[]); // calculates the totals per person and puts them in
an int[]
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 calcAvgs(int[][DAYS], int[]); // calculates the average exercise per day per person,
index of avg stored in int[]
int calcTotal(int[]); //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[]);
returns it
void outputCalculations(int[][DAYS], int[], int[], int[], int);
the peak exercise day and value for each person,
// the average minutes of exercise per day for the group,
/ the relative contribution to the total,
  and the total minutes of exercise for the week
```

Time Estimate

	Estimated Time	Actual Time
Program Design	<u>20</u>	<u>16</u>
(list each function name and the		
time required to code each)		
readData()	<u>5</u>	4
errorCheck()	<u>3</u>	<u>2</u>
<u>calcMaxDay()</u>	<u>10</u>	<u>1</u>
calcAvgs()	<u>3</u>	1
calcTotal()	<u>3</u>	1
<u>calcTotals()</u>		<u>1</u>
<pre>calcMaxDayPerPerson()</pre>	<u>10</u>	<u>3</u>
calcAvgPerDay()	<u>5</u>	<u>1</u>
outputCalculations()	<u>10</u>	<u>12</u>
Program Test/General Debug	<u>15</u>	<u>20</u>
Logging System & Arguments		<u>20</u>
DaySuffix		<u>2</u>
Total Time	<u>79</u>	84