# FINAL SEMESTER PROJECT Group 3



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|  | Copy the problem  (10% points) | Open a file that contains length and width measurements for the tumors on the left and right side of the mouse body. Read the length and width of the tumors in the file to calculate the area using the following formula:  Area=Width\*Length  If the area of either tumor on the mouse is 500 or above, the identification for that mouse can be put into another data file which will be the output of tumors ready for testing. If the area is below 500, the identification for that mouse can be put into another output file labeled Not Ready. Next, create a plot of Male vs. Female, NOG vs. Athymic Nude, Ready with Parameters vs. Not Ready with Parameters, Cage vs status. All measurements are in cubic millimeter. |
| Write one sentence problem statement | Calculate area of either tumor on the mouse and write in two other files the area above 500 and the area below 500, respectively, and then create plots to display cage vs. status, male vs. female, animal strain comparisons, parameter vs. status. |
|  | List all of the “do-somethings”.  (20% points) | Open a file that contains length and width measurements for the tumors on the left and right side  of the mouse body  Read the length and width of the tumors  calculate the area Area=Width\*Length  If the area of either tumor on the mouse is 500 or above, the identification for that mouse can be put into another data file which will be the output of tumors ready for testing.  If the area is below 500, the identification for that mouse can be put into another output file labeled Not Ready  create a plot of Cage vs status  Male vs. Female  NOG vs. Athymic Nude  Ready with Parameters vs. Not Ready with Parameters |
|  | Solve Problem by hand.  (20% points) |  |
|  | Develop a flowchart.  (20% points) | ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.29.20.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.29.28.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.29.37.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.29.52.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.32.51.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.33.45.png../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.33.02.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.36.34.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.36.44.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.39.30.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.39.39.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.39.51.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.40.02.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.44.44.png  ../../Dropbox/Screenshots/Screenshot%202018-05-09%2011.44.55.png |
|  | Write pseudo code.  (20% points) | ../../Dropbox/Screenshots/Screenshot%202018-05-09%2012.39.48.png      ../../Dropbox/Screenshots/Screenshot%202018-05-09%2012.43.38.png |
|  | Review steps 4 and 5 and make sure they are in sync.  (10% points) | Strep 4 and step 5 are matches |

**Step 9: Clean Run**















