# IPC 144 Project - Milestone 1

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## Project Problems:

1. Get your problems by logging onto matrix
2. Then run the program: ~catherine.leung/getproject

Note that this is completely individualized to you. Your classmates will have a different set. Your profs will check to make sure you are doing the set of problems assigned to you

**Copy and paste the output of getproject here**:

ywang841

Based on your Username: ywang841

Your Problem set is as follows:

A2

B13

C3

Look at the files provided to you in the olympic.zip file (highly recommend opening the files in Excel and answer the following questions. See milestone 1 specs for clarification.

### Problem 1 (Easy level)

a) **What is the problem you are doing for this part (copy the text of the problem, not just the problem number from the specs)**?

Given a year, and whether it was a winter or summer olympics, which country won the most silver medals. Note: ties are possible, if there is a tie, all countries that tie are part of the answer.

b) **What data file(s) (from the set of provided files consisting of Olympic statistical information) will you need to answer the problem**?

Olympic\_Games\_Medal\_Tally.csv

c) **What column(s) (from within each data file) will you need to solve the problem**?

columns 1,4,7

d) **Is there any missing/incomplete data for the problem**?

no

e) **Other than the data in the files, what other information will you need to solve the problem**?

no more information I need

f) **For cases where the problems involve multiple files, how do you relate the data between the files** ?

### Problem 2 (Intermediate level):

a) **What is the problem you are doing for this part (copy the text of the problem, not just the problem number from the specs)**?

Given a year, and whether it was a summer or winter olympics, find the number of unique events at the olympics

b) **What data file(s) (from the set of provided files consisting of Olympic statistical information) will you need to answer the problem**?

Olympic\_Athlete\_Event\_Results.csv

c) **What column(s) (from within each data file) will you need to solve the problem**?

columns 1, 5

d) **Is there any missing/incomplete data for the problem**?

No

e) **Other than the data in the files, what other information will you need to solve the problem**?

no more information I need

f) **For cases where the problems involve multiple files, how do you relate the data between the files** ?

### Problem 3 (Hard level):

a) **What is the problem you are doing for this part (copy the text of the problem, not just the problem number from the specs)**?

Given a year and whether it was summer or winter olympics produce a histogram of the 10 top ranked countries based on the number of total number medals won. Break ties with number of golds, then number of silvers, then number of bronze

b) **What data file(s) (from the set of provided files consisting of Olympic statistical information) will you need to answer the problem**?

Olympic\_Games\_Medal\_Tally.csv

c) **What column(s) (from within each data file) will you need to solve the problem**?

columns 1,4,6,7,8,9

d) **Is there any missing/incomplete data for the problem**?

No

e) **Other than the data in the files, what other information will you need to solve the problem**?

no more information I need

f) **For cases where the problems involve multiple files, how do you relate the data between the files** ?