Recruitment ListGenerator Instructions

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Program Details

- **Basic Description**: reads a file that contains all the sisters (organized in their bump groups) and outputs each of the sisters' spots in line as well as how many PNMs each sister should scoop. You will run the program once for each round.
- **How this program handles legacies:**
  - *Indicates* which sister is going to scoop a legacy with ***** next to her name, but does not provide any ability to *choose* which sister to scoop the legacy.
  - Ensures that a legacy is scooped by herself (not a double scoop).
  - Ensures that the sisters scooping before and after the legacy are also only scooping one girl to avoid confusion in rounds.
- **Caveats:**
  - The code is written in a way that it assumes that (1) the number of girls in each bump group will never be greater than 5, (2) there will never be more than 30 bump groups, and (3) there will never be more than 10 legacies in a round.
  - All double scoops occur as soon as they can -- they're not spaced out or random.
  - This program does not handle any matching.
  - This program will not be useful for preference round.
  - These instructions are meant for Mac users. Setting up and running the program on a PC will require different instructions.

Starting/Saving Information

- Open the ZIP folder "lists" and save it on your desktop
- Folder contents:
  - The program (ListGenerator.java) *no need to touch this but you need to have it
  - The java class (ListGenerator.class) *no need to touch this but you need to have it
  - The input files you will eventually make (there is currently one called "input.txt" that you can use as an example) -- see "Input/Text Files" section of this document
    - For an example, there is also a file called "output.txt" which contains what the program outputs when give it "input.txt"
  - This document of instructions
  - Screen recording example of running the program
- You can save other things in this folder if you want, but it is essential that the program, java class, and input files are in here.

Input/Text Files

- Write these files as text files (.txt) using a simple text editor -- Macs come with TextEdit.
- Each file should consist of the sisters organized in their bump groups.
- Create one text file per bump LETTER group.
    - We organize bump groups into larger letter groups that are assigned to rounds.
    - For each text file, only put the bump groups that are members of the letter group.
- Format
    - For each bump group…
        - Start with a line that says “group” in all lowercase
            - You can include a number AFTER if you want to keep yourselves organized, but just make sure that the line STARTS with “group”
        - Then enter the names of each sister in the bump group on its own line
        - Enter the names in order with the bump starter being the first name
        - Do not put enters/gaps in between groups or names
    - Example:

```
group
Bettie Locke
Alice Allen
Bettie Tipton
Hannah Fitch
group
Tory Burch
Sheryl Crow
Sister Suzy
Jane Doe
```

- Saving
    - It’s important for you to know the names of these files when you run the program later, so give each file a rememberable name that make sense to you.
        - I suggest to name each file with their group letter (e.g. groupA.txt).
        - Always end with .txt
    - Save each file in the lists folder you should have saved on your desktop.

Setting Up the Program

This part might be a little lengthy, especially if you have never done it before, but you will only have to do it one time per computer that you'd like to run the program on!

- Open up the Terminal app -- it should already be install on a Mac.
- Most likely, you will not have JDK installed on your computer yet, so you will need to download it. This video provides a visual of the steps outlined below: https://www.youtube.com/watch?v=y6szNJ4rMZ0
    - In Terminal, type: `java -version` to check if you have it installed
        - If you do not, a window will pop up that says "to use the java command-line tool you need to install a JDK."
        - If you click "More Info" from this window, it will bring you directly to the website you need to download the JDK (but if not here's the link: https://www.oracle.com/technetwork/java/javase/downloads/index.html).
    - Click on the big icon at the top of the screen to download the Java Platform (JDK)
    - Then under "Java SE Development Kit," click on the macOS download link.
    - Once it finishes downloading, open it and double click on the icon to install. Continue through the prompts until you are complete.
    - If you go back to Terminal and type `java -version` again, you should now see that it is installed and it tells you the version you have on your computer.
- Now we need to access the folder "lists" that you should have everything saved in...
    - In Terminal, type `ls` and click enter to view all of the folders you currently have access to. You should see something similar to this:

```
Michelles-MacBook-Pro:~ michellepalmieri$ ls
Applications            Library                 Public
Desktop                 Movies                  iCloud Drive (Archive)
Documents               Music
Downloads               Pictures
Michelles-MacBook-Pro:~ michellepalmieri$
```

    - Since the folder is saved on your Desktop, we need to move into that folder. Type `cd Desktop` to do so.
      If you type `ls` again, now it will show you all of the folders within your desktop.
    - Type `cd lists` to move into the folder with all of the information we need.
      If you type `ls` again, you should see the program and all the input files saved.
- Lastly to compile the program, type `javac ListGenerator.java` (case sensitive!)
    - If everything goes correctly, nothing will happen after compiling other than a new command line displaying.
    - After compiling, you are ready to run the program -- see "Running the Program" section of this document

Running the Program

- You will run the program once for each round. By this I mean once for each round of the day; so if there are 10 rounds in Sisterhood, you need to run the program 10 times.
- **How to run the program:**
    - Open Terminal and go to the lists folder the same way you did in the setup:
        - `cd Desktop` → `cd lists`
    - Type: `java ListGenerator` (case sensitive!)
    - Next, the program will display some prompts that you need to answer. Answer the prompt appropriately and hit enter after each answer.
        - After "bump group filename:" enter the name of the input file that you created for the letter group that is in the round (make sure to include the extension .txt when typing the name).
        - After "Number of PNMs:" enter how many PNMs are in the round.
        - After "Number of legacies:" enter how many legacies are in the round.
            - If there are no legacies, enter 0
            - If you enter any number greater than 0, there will be one prompt per legacy asking you what her position in line is. After each prompt, enter the number of the legacy's spot in line. Enter these spots in numerical order (least to greatest).
    - Do this for each round, changing the answers to the prompts accordingly.
- Once you answer all of the prompts, the program will output the list for you. Copy and and paste it wherever you'd like!
- Tips/Tricks:
    - If you ever make a mistake/typo when entering info after the prompts, just press Control C (not Command C) and it will exit the program; then you can just start over for that round. If all else fails, just quit Terminal and run the program again.
    - Instead of typing the same thing repeatedly in Terminal, you can just press the arrow up button on your keyboard to scroll through previous commands.

Sharing This Information

- Hopefully this program will be used for many years of recruitment, so you need to know how to pass it along!
- Compress the "lists" folder (right click → Compress "lists") into a ZIP file.
- Then simply attach it to an email and the next person can save it to their desktop.