**Tracking The Attendance of Students: The Class Monitor**

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In most schools, it is an important aspect to check the attendance of students in a certain class or any other space/event. In most schools, teachers must do it manually, resulting in a tiring, daily task for them. This is especially true when trying to determine not only who is present, but also whenthey arrived and whether they were early, on time, or late. This amount of information can cause stress to teachers, ultimately leading to an inaccurate or inconsistent tracking of attendance.

This is why Sean Lester and I came up with this idea: The-Class-Monitor-Attendance Tracker. This program aims to let students input their names themselves, in which the program determines whether they were late, early, or on time. Although there already exists technology similar to this, like QR scanning, our program focuses more on a clearer and concise output, rather than only focusing on tracking attendance.

**Objectives:**

Our program aims to follow this set of goals:

1. **Automate the tracking of attendance, making manual tracking unnecessary**
2. **Categorize the arrival time (early, on time, late)**
3. **Maintain a running attendance count (count the number of students whose attendance is tracked)**
4. **Support multiple entries, allowing a program loop for multiple students without restarting**
5. **Keep inputs and outputs clear, to create a user-friendly interface**

**Planned Features:**

* Let the student input their name, grade, and section, which will be important in storing their attendance
* Let the students input their time of arrival
* Create a time comparison feature, most likely using the *datetime* module
* Display the students' arrival position, with the “1st” being the earliest
* If possible, add a way for a person to input the desired time of arrival for all students (for now, our program will base it on 07:30)
* Make a looping system, which will be the main basis to allow more than 1 student to use the attendance tracker

**Planned Inputs and Outputs:**

We aim to let the program first ask the students input their name, grade, section, and time of arrival, respectively. Afterwards, the program will count your position in entering your attendance, through saying “You’re the Nth person!”. Lastly, the program will compare the time the student has entered for his/her arrival and use it to determine whether he/she was early, on time, or late. For comparing the time, as stated in the planned features, we might use a datetime module, or any other possible way. For now, this our main inputs and outputs.