OEC Programming 2021

ZBY1 FINDER

Team: C plus plus

Ahmad Ali

Mahir Chowdhury

Ghenwa Altabbaa

ZBY1 FINDER Description :

- Display the possible infection rate of each person throughout periods and lunch break
- The algorithm updates an already existing database of infected students and faculties based on possible infection rates
- The infection rates are calculated per period/lunch break

Program's Components :

Libraries used :

- pandas
- Pprint
- numpy

1. Import Dataset
2. Initialize record of student info
3. Initialize school schedule
4. **update_apocalypse()** → detects when zombie is in contact with class. When it does, calls *update_infection_rate()* for each newly infected class
5.

- **update_infection_rate()** → increases each student's *infection_prediciton* in the affected class.
- Infection prediction = {multipliers} * 3/(class size) * (number of zombies in affected class)* 100%.
- Multipliers include *health_multiplier* and *age_multiplier*
- Then creates new zombies if Infection_prediction >= 50%

References

- https://www.reddit.com/r/learnpython/comments/awuj72/creating_a_biased_dice_on_python/
- pandas , numpy , collections , Counter, random

Demo !