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Important Information:

- Jubilife Village needs to create a new power plant to help run the city
- Pokemon Voltorb is best suited to run the plant
- Voltorb dimensions: .5m and 10.4kg
- Voltorb is uncommon and only found in Sacred Plaza

Objective: How many Voltorbs will you need to catch to fully power the village

Plan:

1. Research the important information
  - a. Jubilife Village
  - b. Voltorb
  - c. Uncommon
  - d. Sacred Plaza
2. Calculate the necessary amount of Voltorbs needed to power the village
  - a. How much power does Jubilife City need?
  - b. How much power can a single Voltorb produce
  - c. Divide power needed and amount of power a voltorb can produce to find total Voltorbs

Extra Thoughts:

1. Figure out how to catch the necessary amount of Voltorbs efficiently and humanely
  - a. Questions to consider
    - i. Will catching the Voltorbs harm their well being?
    - ii. How does it affect the Sacred Villages ecosystem

Implementation:

- Key Notes:
  - Assume all data points and listings refer to Pokemon Platinum as different game versions have different statistics regarding city population, pokemon dimensions and location
- Research:
  - Jubilife Village:
    - fourth largest city in the Pokemon world and the biggest in Sinnoh
    - Population size 124
  - Voltorb:

- Catch rate 35.2%
- Commonly found near power plants
- Growth rate is medium fast
- Power Plants
  - Although unable to find a definite amount of energy units required to power a plant it was found that 6 Voltorbs were located at the Northeast Carbos Plant
- Sacred Plaza
  - Voltorbs can be found all day at any weather conditions
  - Located in Coronet Highlands
  - One district from Jubilife Village

#### Conclusion:

After all the research done, I do not believe that I could make a conclusive answer. However, a possible solution would be for the Professor to build a Power Plant and just wait for some time. Voltorbs generally live in power plants so there is a chance that they would migrate to the new power plant after some time. Also, since Voltorbs are uncommon to increase your chances of catching them you could use better pokeballs such as the Ultra Ball or the best is the Master Ball. Considering there were 6 Voltorbs in the Northeast Carbos plant, my best guess would be having 6-10 Voltorbs to power the city.

My thought process throughout this activity was to think out each step and take one problem at a time. Knowing little about Pokemon, I decided to research facts about the different locations and pokemons. I then used that information as well as logic to come up with an effective/efficient solution.