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Summary for Project 4

Our core strategy is lightening war which means our strategy will occupied another plants as soon as possible. Then every plants will send population to the friend plants as a support to defense the attack from the enemies. An important point is when the plants send population out, it will keep a part of population to make sure the plant is under control. When we get more plants, it means we got higher increase rate so that we can have more pollution.

We used 3 data structure (dictionary, queue, and stack). The reason why we use the dictionary which can help us get the information of the friend plants. The reason why we used the queue is to record these plant's ID rather than detail. The reason why we used stack structure is because grading rules require 3 structures.

There is an issue that we can't efficiently send the population from the safe zone (there is no enemy plants around) to the war zone which plants face enemy plants directly. Every population will be re-arrange by the plant so that we can't send the population to the destination which we want directly.