



==== Plantabase =====

Thales Protopapas





**Problem: Schools are boring and depressing**  
**Solution: Plants!**

**Problem: Brooklyn Tech is big and we have a lot to keep track of**  
**Solution: Software!**



Third floor north side:

[Pothos (0), Pothos (0), Pothos (0)]

[Pothos (0), Pothos (0), Pothos (0)]

[Ivy (0), Ivy (0), Fern (0)]

(Auto Wall) Second floor east side:

[Pothos (0), Pothos (0)]

[Philodendron (0), Philodendron (0)]

Philodendron found in Second floor east side at (1, 0)

Fern: 1

Ivy: 2

Philodendron: 2

Pothos: 8

===== Day 9 =====

Third floor north side:

[Pothos (9), Pothos (9), Pothos (9)]

[Pothos (9), Pothos (9), Pothos (9)]

[Ivy (3), Ivy (3), Fern (3)]

(Auto Wall) Second floor east side:

[Pothos (0), Pothos (0)]

[Philodendron (0), Philodendron (0)]

=== Total water needed: 1.23 liters ===

Third floor north side:

Needs 1.23 liters

(0, 0): 0.18

(0, 1): 0.18

(0, 2): 0.18

(1, 0): 0.18

(1, 1): 0.18

(1, 2): 0.18

(2, 2): 0.15

Second floor east side:

Automatic wall

# Plant

- Represents a single plant
- type and waterAge
- incDay
- Accesses dictionary CSV for water amount/interval

	A	B	C
1	Ivy	6	0.22
2	Philodendron	12	0.28
3	Fern	3	0.15
4	Pothos	9	0.18
5	end		

New code for CSV

# Wall

- Represents a wall
- name and 2d plantArray
- Construct w/ height & width
- populate
- findPlant
- incDay
- toWater (formatted)
- needWater (ArrayList<int[]>)

# School

- Represents the whole building
- ArrayList of Walls
- Add wall
- incDay
- toWater (instructions)
- waterAll (update database)
- Alphabetical list (all Plants → all types → number of each → selection sort)



# AutoWall

- Waters itself
- Subclass of Wall to fit into School's ArrayList
- incDay keeps waterAge at zero
- toWater overridden, never needs to be watered
- Wall accessors & super keyword



A vertical garden wall composed of a grid of black rectangular frames. Each frame contains a plant. The plants are mostly green, but some are brown and dead. The text "But why?" is overlaid in the center.

**But why?**



The background of the image is a lush green wall on the left, covered in dense foliage with some yellowing leaves. To the right, there's a garden area with large, vibrant green ferns and several large, smooth, light-colored rocks. In the background, a modern building with a glass facade and balconies is visible under a bright sky.

# Thank you

Pls vote 5 🙏