

Computer Science Principles

Class 10

Class 10 Agenda

- Programming Item of the day
- Individual Assignment Review / Clean up
- Fundamentals – again. We MUST understand
- Final Exam Review!
- Class Project Hack-a-thon
- Class Project Official Order!

Programming Item

- Petsafe YardMax
- Why it's different
- Wired vs Wireless

Individual Assignment Review

- Class Review of Each
- Fix any issues right now
- Pull request/email final version to me

Fundamentals

- Functions have inputs and outputs. Determine them first!
- Write the “shell” of the function first, and then fill it later
- Arrays are great for organizing similar data, and are easy to manipulate using loops
- Writing the function and “using” the function don’t look the same – think building Legos. A function is a building block to a larger program.

Fundamentals – What else?

- For loop. Three parts, initialization, the test, and usually an increment/decrement
- Indentation. Helps read the code and understand the code

Final Exam, Things to Know

- While and For loops
- If – else if– else -- end
- How to set a variable to a value
- How to determine if a statement is TRUE/FALSE
- Starting Salary information of CS degree
- Operating systems and Interrupts
- Github and Slack – what are they and why are they good, and how are they bad
- Why is Pair Programming good?
- And/Or && ||