

CS 108 Review Sheet

Go through the below terminology, review lecture notes, and review Scratch exercises and homework.

Format: Multiple Choice/True of False questions and 1 long answer question

Terminology

Week 1: Introduction

Computer Science for All
CS in Healthcare: Telemedicine, robotics, big data
CS protecting the environment
CS in Crime prevention: Predictive Policing and more
CS to help the disabled

Week 1: History of CS

Abacus
Analytical Engine
Lady Ada Countess of Lovelace
Alan Turing
Turing Test
ENIAC
UNIVAC
Grace Hopper
Debugging
UNIX, DOS, Windows, Macintosh
Arpanet
Internet
Web 2.0

Week 2: What is Computational Thinking

Computational Thinking
Algorithms
Flowcharts
CT in K-12
Decomposition

Week 3: Coding Basics

Binary Numbers
High level languages
Visual Programming Languages
Machine Language/ Assembly Language
Pseudocode
Conditionals / if-else
Loops / infinite loop
Function/method
Event
Hour of code

Week 4: Scratch

Blocks
Scripts
Sprite
Stage
X/Y-axis
Hat block
Statements
Boolean Expressions
Conditionals
Loops / Nested Loops
Multithreading
bug

Week 5: Advanced Programming with Scratch

Pen
Drawing shapes
Variables
And/or/not
User input
Broadcast
Function/Methods/Blocks