Analysis

math

DSA

20% math → 80%

Basic

80% math → 20%

1 → Equation

2 → Probability → event → conditional

3 → logarithm and exponential

4 → matrices

5 → sets or arithmatic

Transpose

8-9-10

2^n

$\log_a + \log_b$

$2^n \cdot 2^m = 2^{m+n}$

(6) Numbers Theory. ⇒ $1 + \frac{1}{2} + \frac{1}{2^2} -- \infty$

(7) Boolean logic ⇒ Bit manipulation

(8) Sequence and series. $1 + 2 + \text{---} n$

(9) Basic Tree and graph $1 + 2 + 2^2 \text{ --} 2^n$

(10) Permutation and combination ⟷ $(1 + 1/2 + 1/3 \text{ --- } \frac{1}{n})$

(Combinatorics)

(11) Recurrence Relation ⟶ Rem

Basic plots

Basic co-ordinate

Basic geometry

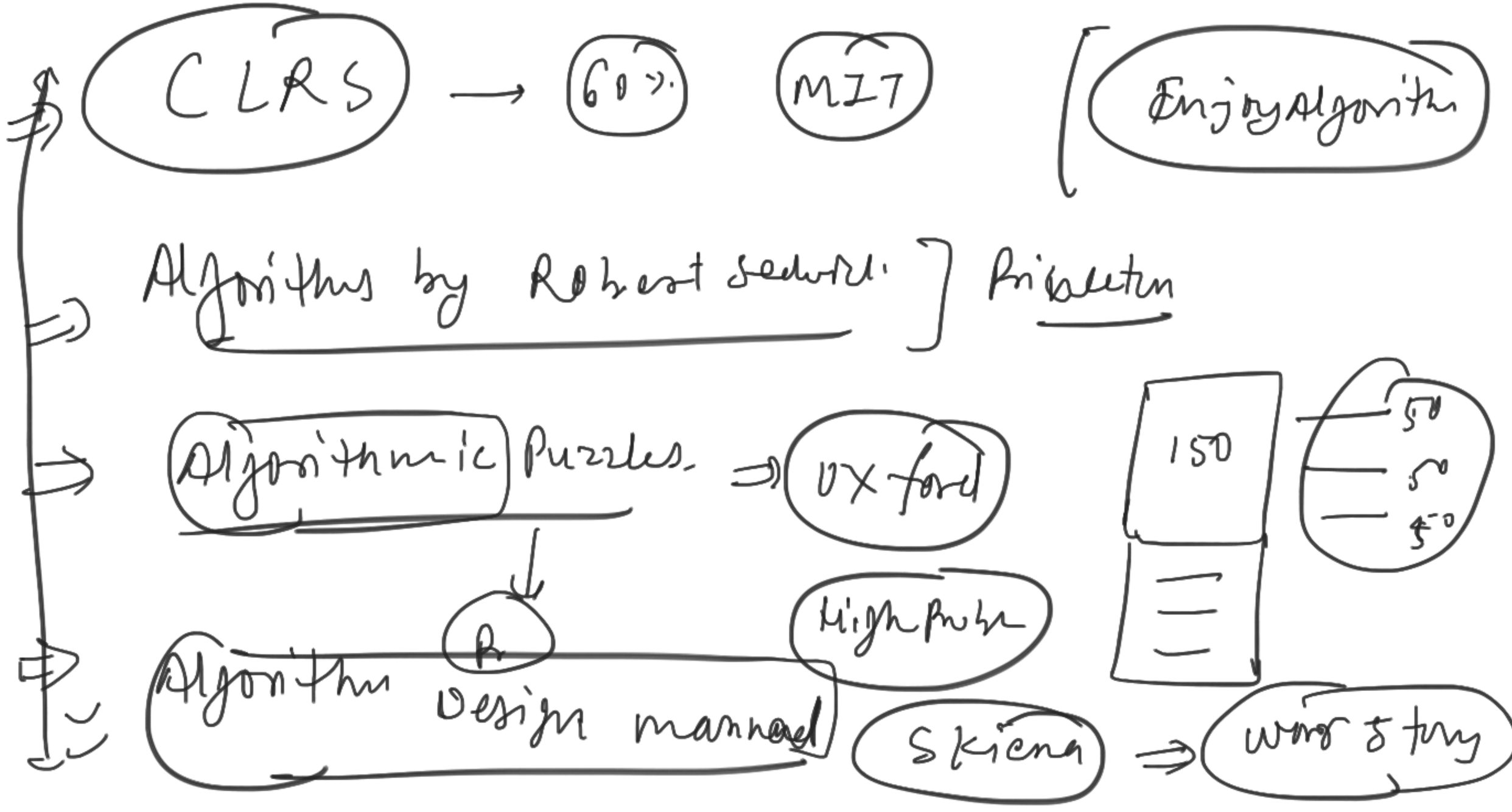
Comic → MIT

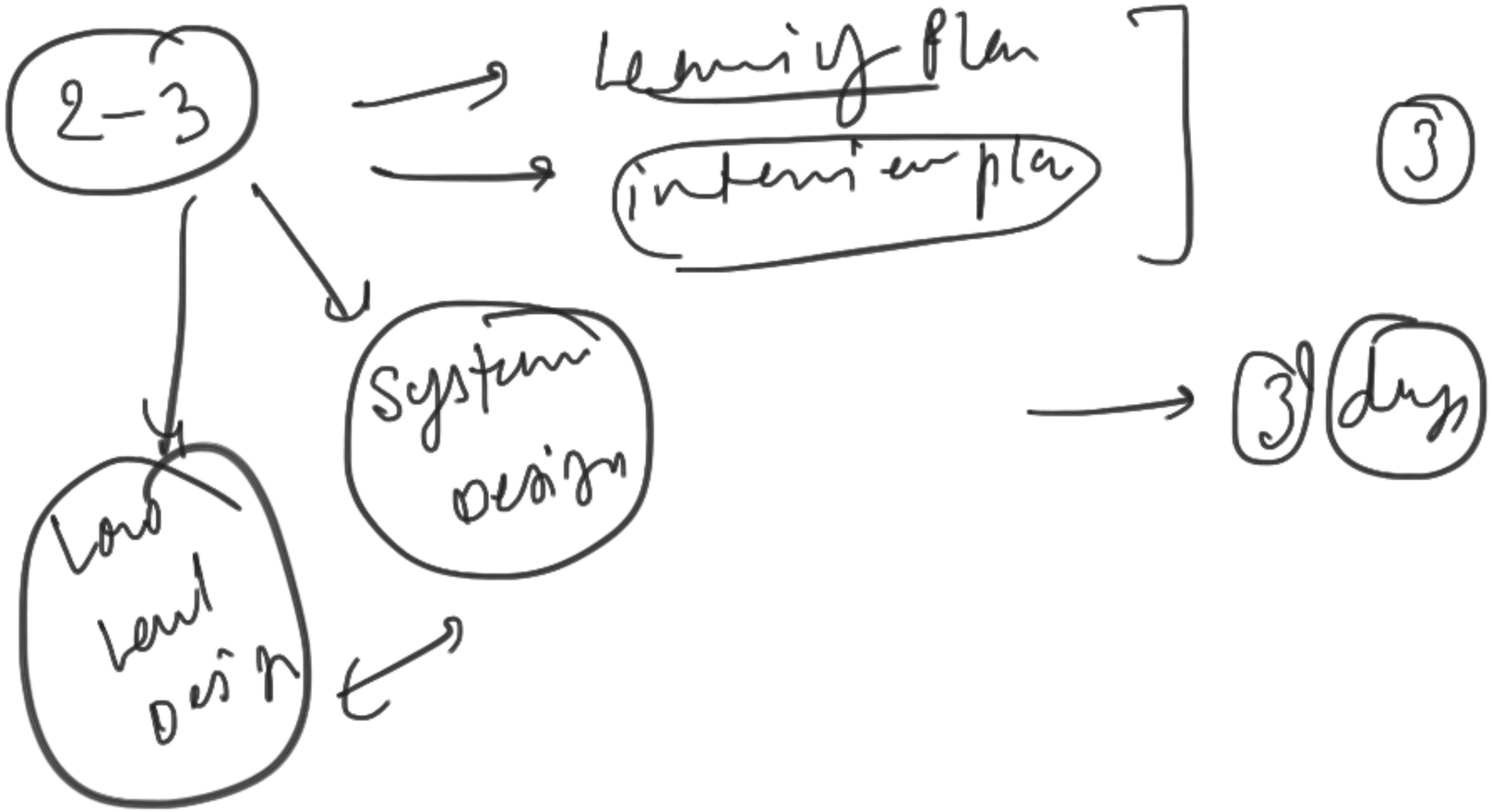
math for CS

⇒ Git repo

any dupe

Code Review


CLRS
60%
MIT
Enjoy Algorithm
Algorithms by Robert Sedgewick
Princeton
Algorithmic Puzzles
Oxford
ISO
50
50
50
High Profile
Algorithm Design manual
Skiena
Wow story


2-3
Learning plan
interview plan
3
System design
3 days
Low level design