Data Structures



Introduction to Programming

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Last Class Summary

- Class Timings
- Mark Split-Up
- Pre-requisites
- Syllabus
- Bloom's Taxonomy
- Course Outcomes
- Fundamentals
- General Parts of a Computer





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• C => Programming Language

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- C => Programming Language
 - o Program?
 - o Language?



- C => Programming Language
 - o Program?
 - A meaningful set of syntactically correct statements/instructions that solves a computational problem.
 - o Language?



- C => Programming Language
 - o Program?
 - A meaningful set of syntactically correct statements/instructions that solves a computational problem.
 - o Language?
 - A grammatical set of meaningful sentences used for communication.



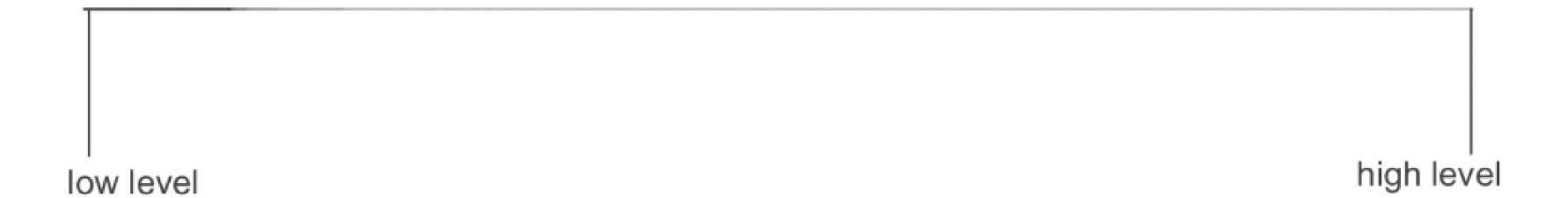
Language Line

low level

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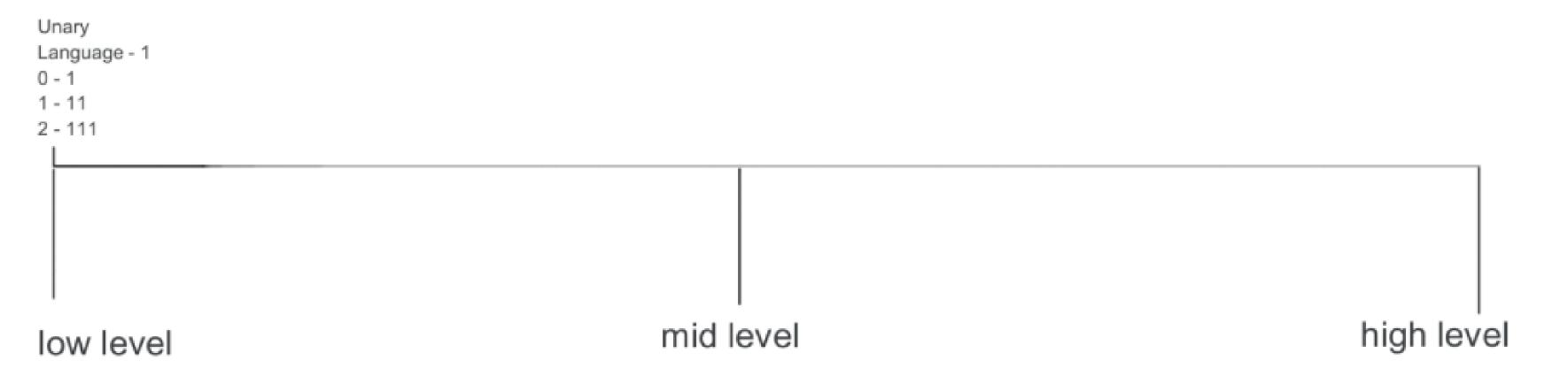




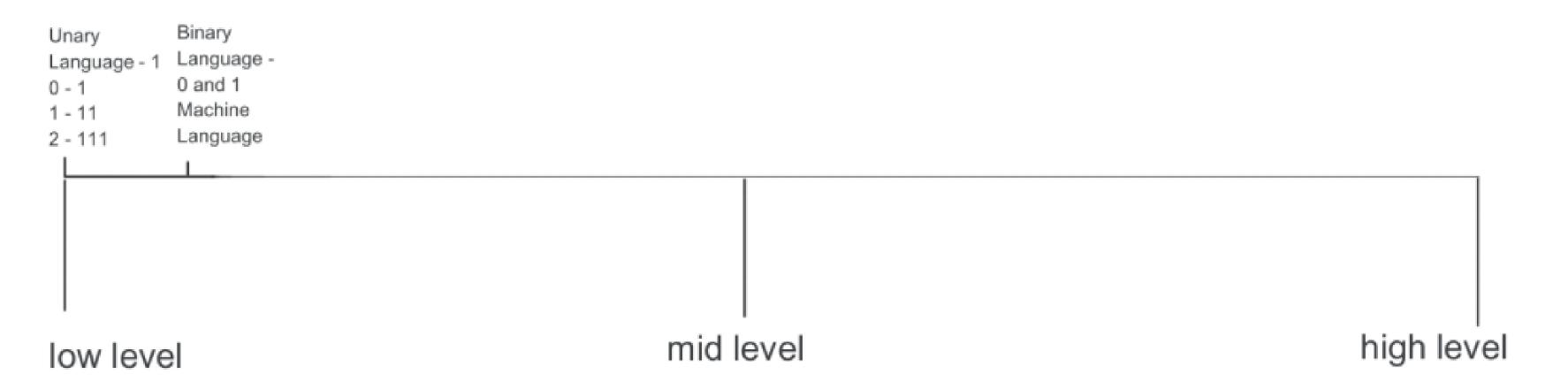




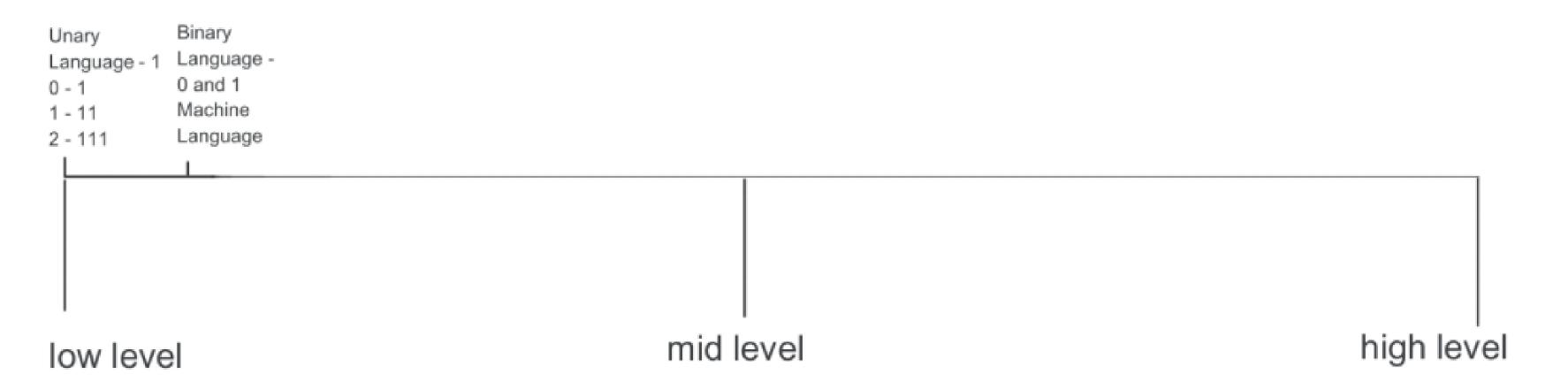






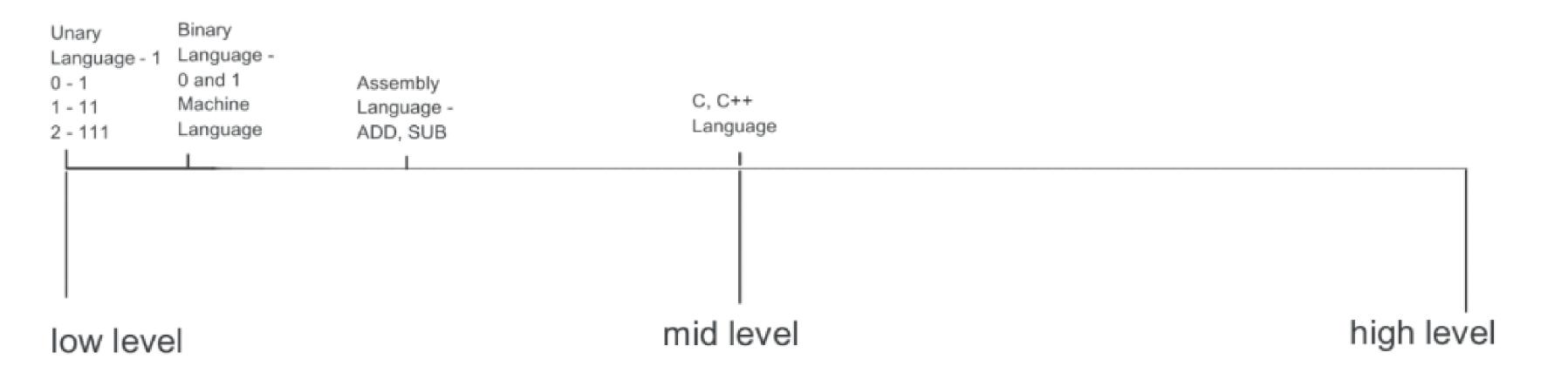




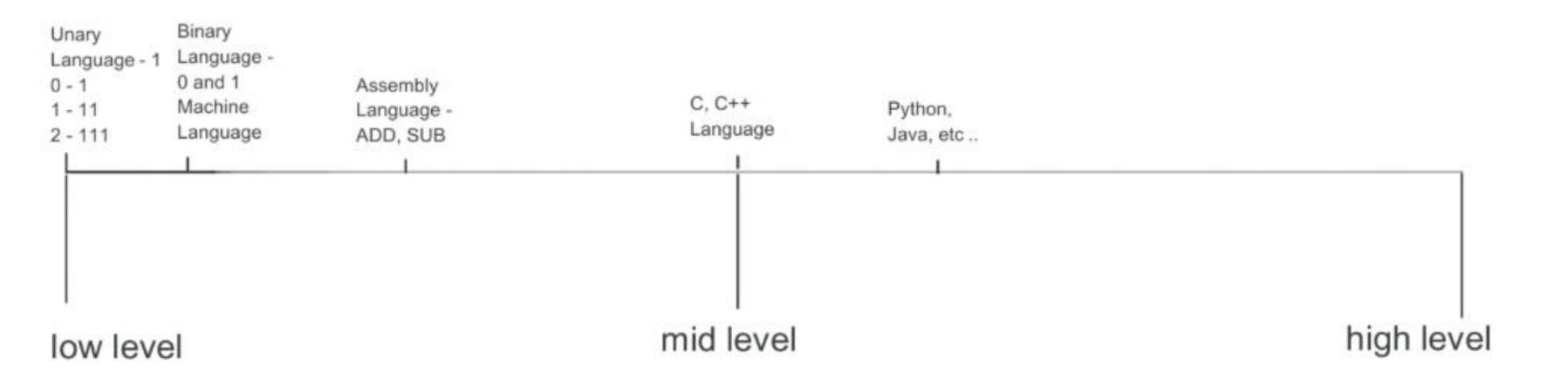




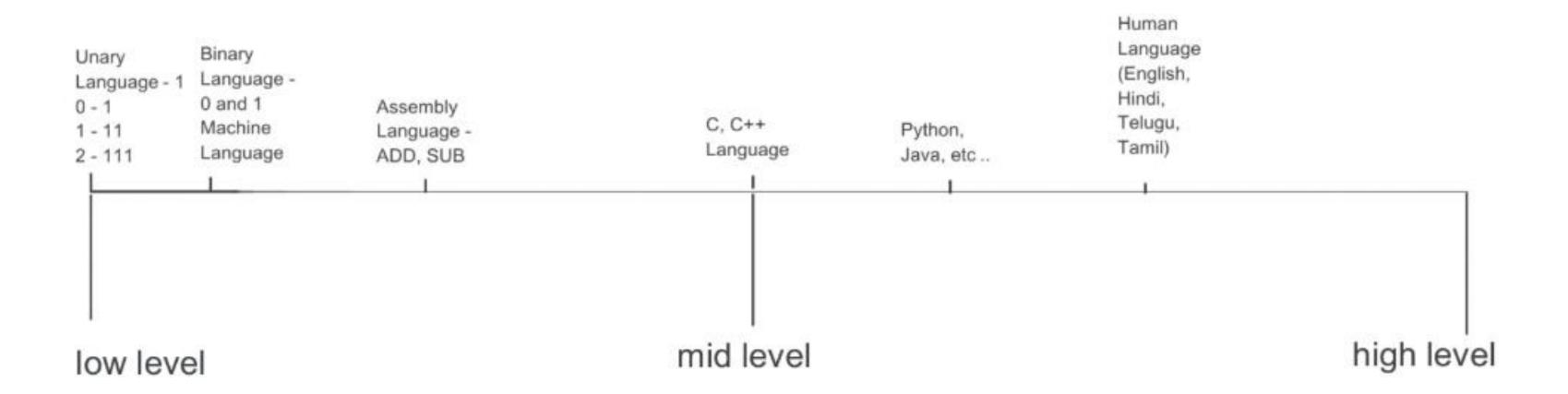




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	English	C
Alphabet	A-Z, a-z	A-Z, a-z
Numbers	0-9	0-9, 0 and 1, 0-7, 0-F
Words	Words	Tokens
Sentences	Grammar + Words = Sentences	Syntax + Tokens = Statements
Paragraph	Paragraph	Block
Chapter/Book	Chapter/Book	Program
Library	Library	Library

Questions?







- CO1 Implement C programs from algorithms and flowcharts with error handling. K3
- CO2 Implement programming fundamentals, decision and looping statements K3
- CO3 Implement C programs with pointers, arrays, and strings K3
- $CO4-Implement\ C$ programs with structures, union, file-handling concepts, and additional features K3
- CO5 Analyze, breakdown, and solve large computational problems using functions K4

Summary

- Introduction to C
- Language
- Today's Course Outcome



References



• Kernighan, B.W and Ritchie, D. M, "The C Programming language", 2nd edition, Pearson Education, 2006

THANK YOU

