

CSE106 Presentation Topic List

Topic No	Topic
0	Bubble Sort Algorithm
1	Insertion Sort Algorithm
2	Use of Big-O Notation in the Time Complexity Analysis of Algorithms
3	Use of Big- θ Notation in the Time Complexity Analysis of Algorithms
4	Average Case Time Complexity Analysis
5	Worst Case Time Complexity Analysis
6	Application of Congruences: Hashing Functions
7	Application of Congruences: Caesar's Encryption
8	The Infinitude of Primes
9	Determination of GCD and LCM using Prime Factorization Method

Note: These are the self-study topics for 5-minute individual ppt presentation.

Topic Selection Method

Your Topic No = (Last 3 digits of your ID) mod 10

Example: Consider that your ID is 2025-1-60-365. Then

Your Topic No = $365 \text{ mod } 10 = 5$

[Violation of the topic selection formula will disqualify for presentation and will result into a 0 mark]

Mark Distribution

Understanding of the Topic	Quality of Presentation
3	2

Evaluation Rubrics

1	2	3	4	5
Poor understanding of the topic	Average understanding of the topic	Average understanding of the topic	Good understanding of the topic	Very Good understanding of the topic
Poor quality of presentation	Good quality of presentation	Very Good quality of presentation	Very Good quality of presentation	Very Good quality of presentation
		Good understanding of the topic	Very Good understanding of the topic	
		Good quality of presentation	Good quality of presentation	