

Oral Exam Rubric

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This rubric outlines the evaluation criteria for the oral exam based on four key learning outcomes.

Criteria 1: Operations (25 pts)

Rating	Point Range	Description
Exceeds Expectations	22–25 pts	Thoroughly and accurately describes operation with clear examples.
Meets Expectations	17–21 pts	Explains operation with example and minimal prompting.
Partially Meets Expectations	11–16 pts	Mentions some aspects of operation but lacks detail or clarity or example.
Does Not Meet Expectations	0–10 pts	Cannot describe operation or gives incorrect information.

Criteria 2: Time Complexity (25 pts)

Rating	Point Range	Description
Exceeds Expectations	22–25 pts	Clearly explains complexity and can justify it.
Meets Expectations	17–21 pts	Explains time complexity for operation(s) with some justification and minimal prompting.
Partially Meets Expectations	11–16 pts	Provides vague or partially correct time complexity description.
Does Not Meet Expectations	0–10 pts	Does not know or incorrectly states time complexities.

Criteria 3: Comparisons (25 pts)

Rating	Point Range	Description
Exceeds Expectations	22–25 pts	Provides insightful, accurate comparison with clear reasoning, identifying relevant trade-offs and use cases or examples that justify the comparison.
Meets Expectations	17–21 pts	Provides a generally accurate comparison with basic reasoning and identifies at least one relevant trade-off or use case.
Partially Meets Expectations	11–16 pts	Provides a limited or partially accurate comparison with unclear reasoning and minimal reference to trade-offs or use cases.
Does Not Meet Expectations	0–10 pts	Provides an inaccurate or missing comparison with no clear reasoning or relevant trade-offs.

Criteria 4: Usage Scenarios (25 pts)

Rating	Point Range	Description
Exceeds Expectations	22–25 pts	Accurately evaluates multiple usage scenarios with clear justification, explaining when the structure is appropriate or inappropriate with supporting reasoning.
Meets Expectations	17–21 pts	Correctly identifies appropriate or inappropriate use cases with basic justification.
Partially Meets Expectations	11–16 pts	Identifies use cases but offers vague, incomplete, or partially correct reasoning.
Does Not Meet Expectations	0–10 pts	Gives incorrect or no reasoning about when or why the data structure should be used.

Total Points: 100