

Assignment Analytics Report

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Teacher: Pavan Kumar

Overall Summary

Total Students	10
Total Questions	20
Overall Similarity	0.24%
Average Insight Score	65.72

Question Q1: Explain recursion

Total Responses	10
Insight Score	52.0
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

a, recursion, function, is, itself

Areas Needing Attention:

- Low Vocab Diversity

Question Q2: Explain stack

Total Responses	10
Insight Score	70.0
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

stack, lifo, is, a, structure

Areas Needing Attention:

Question Q3: Explain queue

Total Responses	10
Insight Score	67.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

queue, fifo, is, a, structure

Areas Needing Attention:

- 1 short answers detected

Question Q4: Explain linked list

Total Responses	10
Insight Score	71.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

linked, list, nodes, is, a

Areas Needing Attention:

Question Q5: Explain binary tree

Total Responses	10
Insight Score	71.6
Confidence Score	100
Understanding Level	Moderate

Risk Level	Low
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Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

tree, binary, is, child, data

Areas Needing Attention:

Question Q6: Explain BST

Total Responses	10
Insight Score	66.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

bst, binary, in, tree, smaller

Areas Needing Attention:

- 1 short answers detected

Question Q7: Explain hashing

Total Responses	10
Insight Score	66.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

hashing, to, function, data, using

Areas Needing Attention:

- 1 short answers detected

Question Q8: Explain searching

Total Responses	10
Insight Score	64.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

searching, a, data, is, an

Areas Needing Attention:

- 2 short answers detected

Question Q9: Explain sorting

Total Responses	10
Insight Score	57.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	High

Teaching Recommendation:

Focus on encouraging detailed explanations and deeper thinking.

Common Keywords:

sorting, data, in, order, elements

Areas Needing Attention:

- 6 short answers detected

Question Q10: Explain merge sort

Total Responses	10
Insight Score	69.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

merge, sort, and, divides, merges

Areas Needing Attention:

Question Q11: Explain quick sort

Total Responses	10
Insight Score	69.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

quick, sort, pivot, uses, sorting

Areas Needing Attention:

Question Q12: Explain graph

Total Responses	10
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Insight Score	64.0
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

graph, is, vertices, and, edges

Areas Needing Attention:

- 2 short answers detected

Question Q13: Explain BFS

Total Responses	10
Insight Score	61.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Medium

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

bfs, level, visits, nodes, by

Areas Needing Attention:

- 3 short answers detected

Question Q14: Explain DFS

Total Responses	10
Insight Score	60.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Medium

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

dfs, explores, deeply, nodes, uses

Areas Needing Attention:

- 4 short answers detected

Question Q15: Explain heap

Total Responses	10
Insight Score	63.6
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

heap, is, a, tree, binary

Areas Needing Attention:

- 2 short answers detected

Question Q16: Explain priority queue

Total Responses	10
Insight Score	71.2
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

priority, queue, based, on, removes

Areas Needing Attention:

Question Q17: Explain dynamic programming

Total Responses	10
Insight Score	62.8

Confidence Score	100
Understanding Level	Moderate
Risk Level	Medium

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

dynamic, programming, uses, problems, results

Areas Needing Attention:

- 3 short answers detected

Question Q18: Explain greedy algorithm

Total Responses	10
Insight Score	68.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

greedy, algorithm, step, chooses, best

Areas Needing Attention:

Question Q19: Explain time complexity

Total Responses	10
Insight Score	64.4
Confidence Score	100
Understanding Level	Moderate
Risk Level	Medium

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

time, complexity, measures, running, of

Areas Needing Attention:

- 3 short answers detected

Question Q20: Explain space complexity

Total Responses	10
Insight Score	71.2
Confidence Score	100
Understanding Level	Moderate
Risk Level	Low

Teaching Recommendation:

Minor clarification and reinforcement recommended.

Common Keywords:

space, complexity, memory, measures, used

Areas Needing Attention:

This report was automatically generated by AI Assignment Analytics System.