CO-1 ALM

The same problem but have different time and space complexities?

Analyzing time complexity-

both algorithms to understand worst-case,

sest-were Average use,

· Input size: consider how each algorithm

Performs as input size increases. An algorithm

with a better time complexity may outperform

the other as input size grows larger.

@Analyzing space complexity

each algorithm. This includes not just extra space used but also space eleavoired to store input & output.

Trade-offs! - Analyze how space greativements grow with input size. An algorithm with better space might be more suitable for memory constrained environments.

Time complexity:

Water-case o(n log n)

Best-case o(n log n)

Best-case : o(n log n)

Space complexity: o(n)

Insention south

Average case: 0(n2)

Best case: 0(n2)

Space complexity: 0(1)