

<u>Data Structure & Algorithms</u> <u>using Python</u>

Quiz Answers

Space Complexity Analysis

Name : Harsh Siddhapura

Degree : Bachelor of Technology

Dept. : Information & Communication Technology

Harsh Siddhapura

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1. Space Complexity Analysis What is the space complexity of following recursive code? def multiplyRec(m, n): if n==1: return m return m + multiplyRec(m, n - 1) O(m)O(m*n) O(n) None of these 2. Merge Sort Space Complexity The space complexity for merge sort is: O(n) $O(n^2)$ O(nlogn) O(log n) 3. Fibonacci Space Complexity The space complexity for finding nth fibonacci number using recursion is: O(n) $O(2^n)$ O(log n) $O(n^2)$ O(nlogn)