



Received 12 November 2003; accepted 12 February 2004
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Question	Answer
Running Time Complexity	Question 1: What is the time complexity of the following algorithm? <pre> for i in range(1, n): for j in range(1, i): print(i, j) </pre> Answer: $O(n^2)$ Question 2: What is the time complexity of the following algorithm? <pre> def find_max(arr): max_val = arr[0] for i in range(1, len(arr)): if arr[i] > max_val: max_val = arr[i] return max_val </pre> Answer: $O(n)$ Question 3: What is the time complexity of the following algorithm? <pre> def is_palindrome(s): left = 0 right = len(s) - 1 while left < right: if s[left] != s[right]: return False left += 1 right -= 1 return True </pre> Answer: $O(n)$ Question 4: What is the time complexity of the following algorithm? <pre> def merge_sort(arr): if len(arr) > 1: mid = len(arr) // 2 left_half = arr[:mid] right_half = arr[mid:] merge_sort(left_half) merge_sort(right_half) merge(left_half, right_half, arr) return arr </pre> Answer: $O(n \log n)$ Question 5: What is the time complexity of the following algorithm? <pre> def bfs(graph, start): visited = set() queue = [start] while queue: node = queue.pop(0) if node not in visited: visited.add(node) for neighbor in graph[node]: queue.append(neighbor) return visited </pre> Answer: $O(V + E)$ Question 6: What is the time complexity of the following algorithm? <pre> def dfs(graph, start): visited = set() stack = [start] while stack: node = stack.pop() if node not in visited: visited.add(node) for neighbor in graph[node]: stack.append(neighbor) return visited </pre> Answer: $O(V + E)$ Question 7: What is the time complexity of the following algorithm? <pre> def quick_sort(arr): if len(arr) > 1: pivot = arr[len(arr) // 2] left = [x for x in arr if x < pivot] middle = [x for x in arr if x == pivot] right = [x for x in arr if x > pivot] quick_sort(left) quick_sort(right) return left + middle + right return arr </pre> Answer: $O(n \log n)$ Question 8: What is the time complexity of the following algorithm? <pre> def binary_search(arr, target): left = 0 right = len(arr) - 1 while left <= right: mid = (left + right) // 2 if arr[mid] == target: return mid elif arr[mid] < target: left = mid + 1 else: right = mid - 1 return -1 </pre> Answer: $O(\log n)$ Question 9: What is the time complexity of the following algorithm? <pre> def merge_sort(arr): if len(arr) > 1: mid = len(arr) // 2 left_half = arr[:mid] right_half = arr[mid:] merge_sort(left_half) merge_sort(right_half) merge(left_half, right_half, arr) return arr </pre> Answer: $O(n \log n)$ Question 10: What is the time complexity of the following algorithm? <pre> def merge_sort(arr): if len(arr) > 1: mid = len(arr) // 2 left_half = arr[:mid] right_half = arr[mid:] merge_sort(left_half) merge_sort(right_half) merge(left_half, right_half, arr) return arr </pre> Answer: $O(n \log n)$

Geography Scope For September Grade 12014

Lei Huang



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