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DATA STRUCTURES AND ALGORITHM ANALYSIS

Quiz 1

Rajdeep Jaiswal

Final Grade Submitted 2/23/22, 9:13 PM (UTC+5:30) 4 / 4

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Assignment Content

Question 1

The concatenation of two lists can be performed in $O(1)$ time. Which of the following variation of the linked list can be used?

- (A) Singly linked list
- (B) Doubly linked list
- (C) Circular doubly linked list
- (D) Array implementation of list

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- Circular doubly linked list
- Array implementation of list

Question 2

Given an unsorted array. The array has this property that every element in array is at most k distance from its position in sorted array where k is a positive integer smaller than size of array. Which sorting algorithm can be easily modified for sorting this array and what is the obtainable time complexity?

- (A) Insertion Sort with time complexity $O(kn)$
- (B) Heap Sort with time complexity $O(n\log k)$
- (C) Quick Sort with time complexity $O(k\log k)$
- (D) Merge Sort with time complexity $O(k\log k)$

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D Merge Sort with time complexity $O(k \log k)$

Question 3

Selection Sort algorithm is an example of

- A Greedy Method
- B Divide and Conquer
- C Dynamic Programming
- D Backtracking

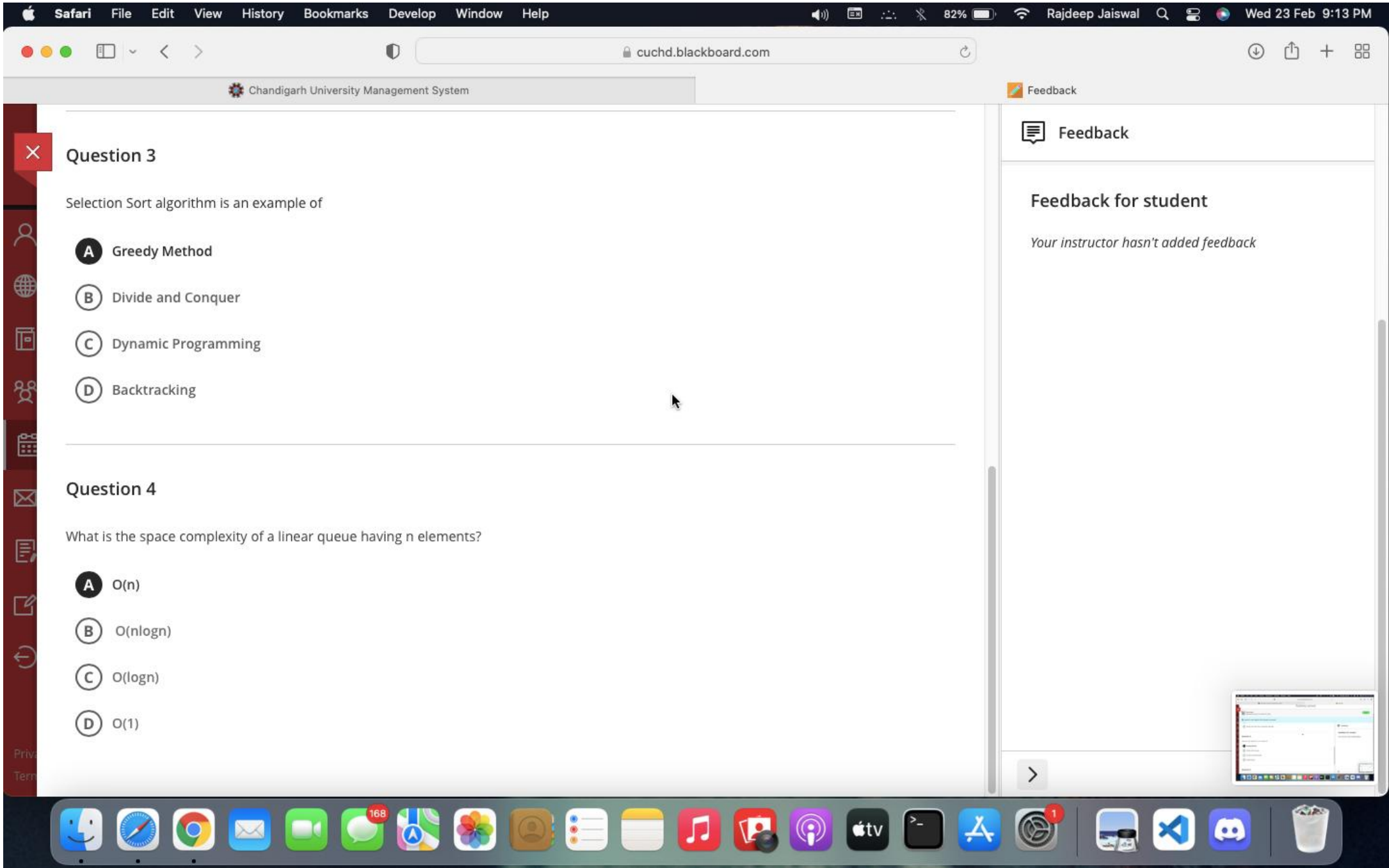
Question 4

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Question 3

Selection Sort algorithm is an example of

- A Greedy Method
- B Divide and Conquer
- C Dynamic Programming
- D Backtracking

Question 4

What is the space complexity of a linear queue having n elements?

- A $O(n)$
- B $O(n \log n)$
- C $O(\log n)$
- D $O(1)$

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