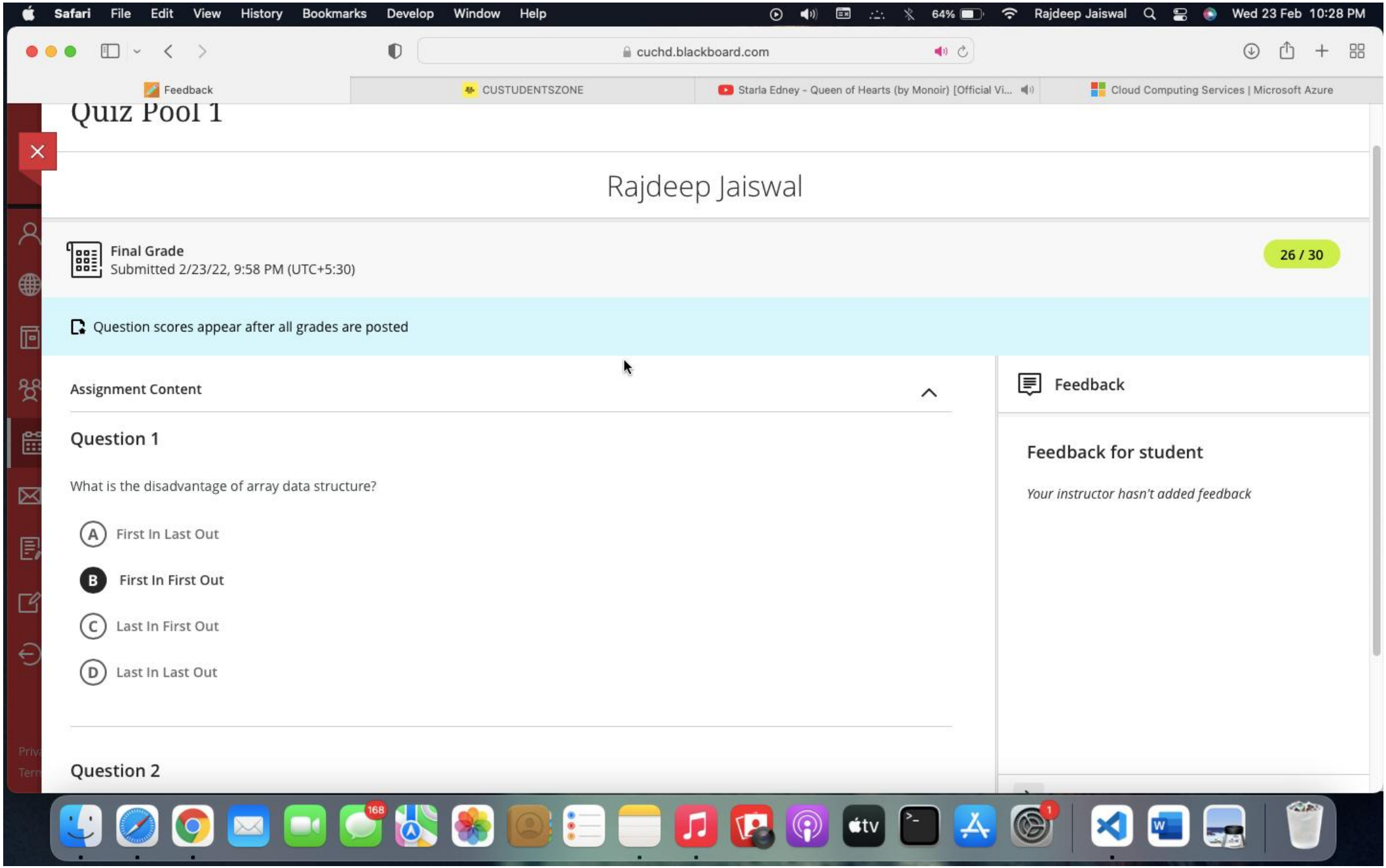
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Assignment Content
Question 1
What is the disadvantage of array data structure?
A First In Last Out
B First In First Out
C Last In First Out
D Last In Last Out
Question 2
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D Last In Last Out

Question 2

What is the term for inserting into a full queue known as?

A overflow

B underflow

C null pointer exception

D program won't be compiled

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Question 3

What is the time complexity of enqueue operation?

- A O(logn)
- B O(nlogn)
- C O(n)
- D O(1)

Question 4

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Question 4

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

- A O(n)
- B O(nlogn)
- C O(logn)
- D O(1)

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Question 5

A linear collection of data elements where the linear node is given by means of pointer is called?

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Question 5

A linear collection of data elements where the linear node is given by means of pointer is called?

- (A) Linked list
- (B) Node list
- (C) Primitive list
- (D) Unordered list

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Question 6

Consider an implementation of unsorted singly linked list. Suppose it has its representation with a head pointer only. Given the representation, which of the following operation can be implemented in O(1) time?

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Question 6

Consider an implementation of unsorted singly linked list. Suppose it has its representation with a head pointer only. Given the representation, which of the following operation can be implemented in O(1) time?
i) Insertion at the front of the linked list
ii) Insertion at the end of the linked list
iii) Deletion of the front node of the linked list
iv) Deletion of the last node of the linked list

A. I and II
B. I and III
C. I, II and III
D. I, II and IV

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(D) I, II and IV

Question 7

In linked list each node contains a minimum of two fields. One field is data field to store the data second field is?

(A) Pointer to character

(B) Pointer to integer

(C) **Pointer to node**

(D) Node

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Question 8

What would be the asymptotic time complexity to add a node at the end of singly linked list, if the pointer is initially pointing to the head of the list?

- (A) O(1)
- (B) O(n)
- (C) θ(n)
- (D) θ(1)

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Question 9

What would be the asymptotic time complexity to insert an element at the front of the linked list (head is known)?

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D θ(1)

Question 9

What would be the asymptotic time complexity to insert an element at the front of the linked list (head is known)?

A O(1)

B O(n)

C O(n2)

D O(n3)

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Question 10

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

Question 11

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Question 11

A linear list of elements in which deletion can be done from one end (front) and insertion can take place only at the other end (rear) is known as _____

- (A) Queue
- (B) Stack
- (C) Tree
- (D) Linked list

Question 12

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Question 12

Process of inserting an element in stack is called _____

(A) Create

(B) Push

(C) Evaluation

(D) Pop

Question 13

What is recurrence for worst case of QuickSort and what is the time complexity in Worst case?

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Question 13

What is recurrence for worst case of QuickSort and what is the time complexity in Worst case?

- (A) Recurrence is T(n) = T(n-2) + O(n) and time complexity is O(n^2)
- (B) **Recurrence is T(n) = T(n-1) + O(n) and time complexity is O(n^2)**
- (C) Recurrence is T(n) = 2T(n/2) + O(n) and time complexity is O(nLogn)
- (D) Recurrence is T(n) = T(n/10) + T(9n/10) + O(n) and time complexity is O(nLogn)

Question 14

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

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D) Recurrence is T(n) = T(n/10) + T(9n/10) + O(n) and time complexity is O(nLogn)

Question 14

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(nLogk)

C) Quick Sort with time complexity O(kLogk)

D) Merge Sort with time complexity O(kLogk)

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(D) Merge Sort with time complexity O(kLogk)

Question 15

Which of the following is not true about comparison based sorting algorithms?

(A) The minimum possible time complexity of a comparison based sorting algorithm is O(nLogn) for a random input array

(B) Any comparison based sorting algorithm can be made stable by using position as a criteria when two elements are compared

(C) Counting Sort is not a comparison based sorting algorithm

(D) Heap Sort is not a comparison based sorting algorithm.

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Question 16

Which of the given options provides the increasing order of asymptotic complexity of functions f1, f2, f3 and f4?
f1(n) = 2^n
f2(n) = n^(3/2)
f3(n) = nLogn
f4(n) = n^(Logn)

- (A) f3, f2, f4, f1
- (B) f3, f2, f1, f4
- (C) f2, f3, f1, f4
- (D) f2, f3, f4, f1

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Question 17

What is the best time complexity of bubble sort?

- (A) N^2
- (B) NlogN
- (C) N
- (D) N(logN)^2

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Question 18

What is the time complexity of the below function?

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Question 18

What is the time complexity of the below function?

```
void fun(int n, int arr[])
{
   int i = 0, j = 0;
   for(; i < n; ++i)
      while(j < n && arr[i] < arr[j])
         j++;
}
```

A O(n)

B O(n^2)

C O(nlogn)

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Question 19

Selection sort, quick sort is stable sorting method.

A True, True

B False, False

C True, False

D **False, True**

Question 20

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D **False, True**

Question 20

Which of the following method is slowest?

A Quick Sort

B Merge Sort

C Shell Sort

D **Bubble Sort**

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Question 21

The worst case running time of insertion sort, merge sort, and quick sort respectively are

A O(nlogn),O(nlogn),O(n^2)

B O(n^2),O(n^2),O(nlogn)

C O(n^2),O(nlogn),O(nlogn)

D O(n^2),O(nlogn),O(n^2)

Question 22

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Question 22

To sort many large objects or structures, it would be most efficient to

- (A) Place reference to them in array and sort the array
- (B) Place reference to them in linked list and sort the linked list.
- (C) **Place pointers to them in array and sort the array**
- (D) Place them in array and sort the array

Question 23

The running time of quick sort algorithm heavily depends on the selection of

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(D) Place them in array and sort the array

Question 23

The running time of quick sort algorithm heavily depends on the selection of

(A) No. of inputs

(B) Arrangement of elements in an array

(C) Size of elements

(D) Pivot element

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D Pivot element

Question 24

Which of the following data structures is most suitable for

A Stack

B Binary search tree

C Tree

D Linked list

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(C) Tree

(D) Linked list

Question 25

Which of the following uses recursion for sorting an array of integers?

(A) Bubble sort and Insertion sort

(B) Bubble sort and Quick sort

(C) Bubble sort and Merge sort

(D) **Quick sort and Merge sort**

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D Quick sort and Merge sort

Question 26

Sorting is

A A process of rearranging a given set of objects in a specific order.

B To facilitate later search for members of the sorted set.

C Is a relevant and essential activity, particularly in data processing

D All of these

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Question 27

How much extra space is used by heapsort?

- A O(1)
- B O(Logn)
- C **O(n)**
- D O(n^2)

Question 28

Selection Sort algorithm is an example of

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D O(n^2)

Question 28

Selection Sort algorithm is an example of

A **Greedy Method**

B Divide and Conquer

C Dynamic Programming

D Backtracking

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Question 29

The no. of swapping needed to sort numbers 8,22,7,9,31,5,13 in ascending order, using bubble sort is

A 11

B 12

C 13

D 10

Question 30

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C 13

D 10

Question 30

Algorithm design technique used in quick sort algorithm is?

A Dynamic programming

B Backtracking

C **Divide and Conquer**

D Greedy Method

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