



Read the question carefully and choose the correct answer for the given options

Give is `int pr[] = {1,2,3,5,7,11, 13}`. It is initialization of array. (1 Mark)

OPTIONS

true

false

T

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Read the question carefully and choose the correct answer for the given options

Determining how a function grows faster or slower as compared to other function, identify notations to be used.

OPTIONS

All can be used

Big O

Big Theta

Big Omega

B

Read the question carefully and choose the correct answer for the given options

Identify the data structure best suited for hierarchical relationship between elements (1 Mark).

OPTIONS

Stack

Tree

Priority Queue

Array

B

Read the question carefully and choose the correct answer for the given options

Select appropriate choice to fill. Sparse matrix have ____: (1 Mark)

OPTIONS

None

higher dimension

many zero enteries

many non zero enteries



Read the question carefully and choose the correct answer for the given options

Sorted list is an essential prerequisite to apply binary search. (1 Mark)

OPTIONS

true

false

Read the question carefully and choose the correct answer for the given options
Array is A[5] and elements are 1,2,3,4,5. Choose the accessed element with A[3-1] statement. (1 Mark)

OPTIONS

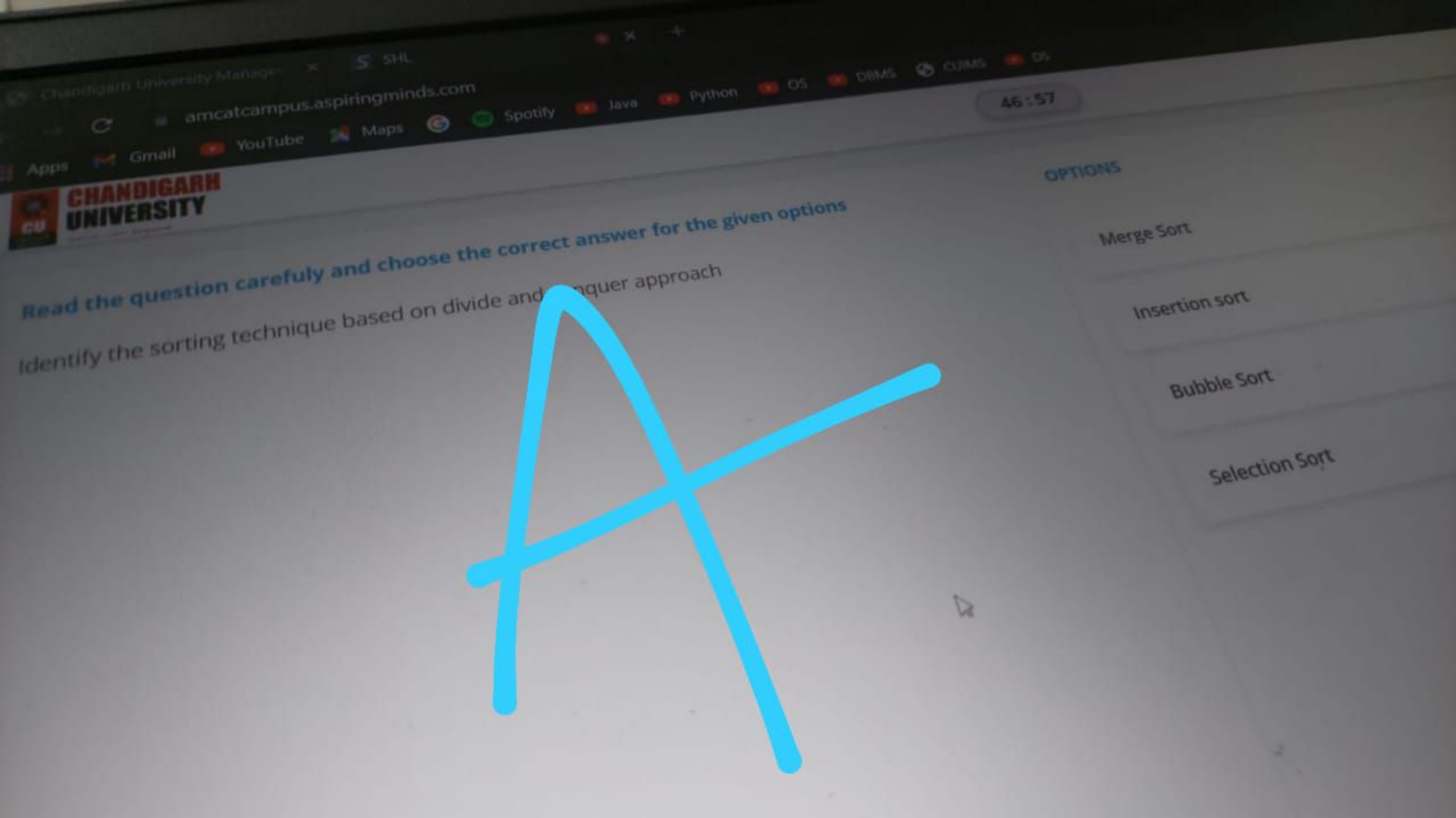
4

Wrong way to access array element.

2

3

B



Read the question carefully and choose the correct answer for the given options

Identify the sorting technique based on divide and conquer approach

A

OPTIONS

Merge Sort

Insertion sort

Bubble Sort

Selection Sort

Read the question carefully and choose the correct answer for the given options

OPTIONS

Choose most appropriate answer. How to read some element from any location within fixed time complexity ($O(1)$)

Irrespective of implementation it is possible always

Not possible

When list is implemented using array


When list is implemented using pointers

C





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43 : 10

Exit

PASSAGE

Searching is technique to find an item in a given list of elements. There are two type of search techniques names as Linear and Binary search. These two are applicable to a given list of elements under certain conditions or rules.

Read the question carefully and choose the correct answer for the given options

When a given list of items is not sorted and we need to find an element, the most suitable approach is Binary Search.

OPTIONS

true

false

SKIP

SUBMIT ANSWER

30

31

32

33

34

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36

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38

39

40

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43 : 24

Exit

PASSAGE

Searching is technique to find an item in a given list of elements. There are two type of search techniques names as Linear and Binary search. These two are applicable to a given list provided certain conditions or rules.

D

Read the question carefully and choose the correct answer for the given options

Given array A[] = (1,2,3,4,5). Select time complexity of Binary Search in Worst Case.

OPTIONS

O(n)

O(nlogn)

O(1)

O(logn)

SKIP

SUBMIT ANSWER

3031323334353637383940


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43 : 13

Exit

PASSAGE

Searching is technique to find an item in a given list of elements. There are two type of search techniques names as Linear and Binary search. These two are applicable to a given list provided certain conditions or rules.



Read the question carefully and choose the correct answer for the given options

Applying linear search on an array, If worst case is $O(n)$. Is it possible to reduce it to $O(1)$ if element is found at last.

OPTIONS

true

false

SKIP

SUBMIT ANSWER

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43:15

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PASSAGE

Searching is technique to find an item in a given list of elements. There are two type of search techniques names as Linear and Binary search. These two are applicable to a given list provided certain conditions or rules.

Read the question carefully and choose the correct answer for the given options

We are given a data structures implemented using pointers or linked list. We are advised not to use Binary Search. Select answer.

OPTIONS

true

false

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SKIP

SUBMIT ANSWER

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43 : 22

?

Exit

PASSAGE

Searching is technique to find an item in a given list of elements. There are two type of search techniques names as Linear and Binary search. These two are applicable to a given list provided certain conditions or rules.

Read the question carefully and choose the correct answer for the given options

Identify the space complexity if binary search is implemented recursively

OPTIONS

O(1)

O(n)

O(logn)

O(n^2)

SKIP

SUBMIT ANSWER

30

31

32

33

34

35

36

37

38

39

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PASSAGE

Asymptotic Notation is used to represent the time complexity of an algorithm. There are different types of such notations. Each type represents separate case. Based on your knowledge on this concept, answer the questions:



Read the question carefully and choose the correct answer for the given options

Identify tight bound notation

OPTIONS

Big O

Theta

Omega

None

SKIP

SUBMIT ANSWER

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PASSAGE

Searching is a technique to find an item called as key, in a given list of items. Items are sorted in some data structure. There are different search techniques like binary search and linear search. These are good for special cases. They may exhibit same or different time complexities. We need to follow a well defined procedure to perform search using any one of the above mentioned methods. Using this information, solve the questions:



Read the question carefully and choose the correct answer for the given options

Item to search is 12. Array is: 10,12,20,32,50,55,65,80,99. Apply binary search algorithm and identify number of step/pass and index, when item is found..

OPTIONS

2,1

2,2

1,2

1,1

SKIP

SUBMIT ANSWER

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Given an array A is 25.4, Suppose $\text{Base}(A)=200$ and for single element 4 bytes are taken,

Choose number of elements in array A

25

29

100

4

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44 : 04

?

Exit

PASSAGE

Given an array A is 25,4 . Suppose Base(A)=200 and for single element 4 bytes are taken.



Read the question carefully and choose the correct answer for the given options

Using row-major storage, compute the address of A[12][3]

OPTIONS

384

444

392

125

SKIP

SUBMIT ANSWER

2324252627282930313233

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SAGE

Consider the data 30, 60, 20, 50, 40, 10 put in an array and given below algorithm:
Repeat step 2 and 3 varying j from 0 to $n-2$ passes
Find the index of the minimum value in $arr[j]$ to $arr[n-1]$
Let $min_index=j$
Repeat step c varying i from $j+1$ to $n-1$
arr[i] 3. swap $arr[j]$ with $arr[min_index]$

A

Read the following passage to answer the given questions based on it. Some words/phrases are printed in bold to help you locate them while answering some of the questions.

Which operation is used by given algorithm to sort the data elements from unsorted place to sorted place?

OPTIONS

Swap

Insert

Delete

None of these

PASSAGE

Consider the data 30, 60, 20, 50, 40, 10 put in an array and given below algorithm:

- Repeat step 2 and 3 varying j from 0 to $n-2$ passes
- Find the index of the minimum value in $arr[j]$ to $arr[n-1]$
- Set $min_index=j$
- Repeat step c varying i from $j+1$ to $n-1$
- If $arr[i] < arr[min_index]$ swap $arr[i]$ with $arr[min_index]$

Read the following passage to answer the given questions based on it. Some words/phrases are printed in bold to help you locate them while answering some of the questions.

The given algorithm is suitable for

OPTIONS

Small Datasets

Big datasets

Both of these

None of these

A



PASSAGE

A company contains a membership file which contains following information about the employees in the company: **Name, Address, Phone No, Age, Sex**

B

Read the following passage to answer the given questions based on it. Some words/phrases are printed in bold to help you locate them while answering some of the questions.

Suppose the company wants to invite only one specific employee in a meeting. the operation that will be performed on the membership file for same?

OPTIONS

Traversal

Searching

Insertion

Deletion

PAGE

Consider the data 30, 60, 20, 50, 40, 10 put in an array and given below algorithm:
Repeat step 2 and 3 varying j from 0 to $n-2$ passes
Find the index of the minimum value in $arr[j]$ to $arr[n-1]$
Let $min_index=j$
Repeat step c varying i from $j+1$ to $n-1$
arr[i] 3. swap $arr[j]$ with $arr[min_index]$

Read the following passage to answer the given questions based on it. Some words/phrases are printed in bold to help you locate them while answering some of the questions.

What is the best case time complexity for give algorithm?

OPTIONS

$O(n^2)$

$O(\log n)$

$O(n \log n)$

None of these

A