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msushilkumar27_ec@mepcoeng.ac.in ~

NPTEL (https://swayam.gov.in/explorer?ncCode=NPTEL) » Problem Solving Through Programming In C (course)



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Course outline

How does an NPTEL online course work? ()

Week 0: ()

Week 1 ()

Week 2 ()

Week 3 ()

Week 4 ()

Week 5 ()

Week 6 ()

Week 7 ()

Week 8 ()

Week 10: Assignment 10

The due date for submitting this assignment has passed.

Due on 2023-10-04, 23:59 IST.

Assignment submitted on 2023-10-03, 21:51 IST

Bisection method is used to find

1 point

- a) Derivative of a function at a given point
 - b) Numerical integration of a function within a range
 - c) The root of a function
 - d) None of the above
- a) Option (a)
- b) Option (b)
- c) Option (c)
- d) Option (d)

Yes, the answer is correct.

Score: 1

Accepted Answers:

c) Option (c)

2) 1 point

In, the search starts at the beginning of the list and checks every element in the list.

- a) Linear search
- b) Binary search
- c) Hash search
- d) Binary tree search
- a) Option (a)

b) Option (b) Week 9 () c) Option (c) Week 10 () d) Option (d) Yes, the answer is correct. Lecture 46: Score: 1 **Bubble Sort** Accepted Answers: (Contd.) (unit? a) Option (a) unit=93&lesso n=94)1 point What is the worst-case time complexity of Linear Search? O Lecture 47: a) O(1) Use of Pointer b) O(logn) in Function: c) O(n) Context **Bubble Sort** d) O(n²) (unit? unit=93&lesso a) Option (a) n=95) b) Option (b) O Lecture 48: c) Option (c) Arrays at Strings (unit? d) Option (d) unit=93&lesso Yes, the answer is correct. n=96) Score: 1 Accepted Answers: O Lecture 49: c) Option (c) Data Representatio n (unit? 1 point 4) What is the worst-case complexity of bubble sort? unit=93&lesso a) O(N log N) n=97)b) O(log N) Lecture 50: c) O(N) **Bisection** Method (unit? d) O(N²) unit=93&lesso n=98)a) Option (a) Quiz: Week b) Option (b) 10: c) Option (c) **Assignment** d) Option (d) (assessment? Yes, the answer is correct. name=267) Score: 1 Accepted Answers: Week 10 : d) Option (d) Programming Assignment 01 5) 1 point (/noc23 cs121 /progassignme What maximum number of comparisons can occur when a bubble sort is implemented? nt?name=268) Assume there are n elements in the array. Week 10 : a) (1/2) (n-1) Programming b) (1/2) n(n-1) Assignment 02 c) (1/4) n(n-1) (/noc23 cs121 d) None of the above /progassignme

a) Option (a)

nt?name=269)

Week 10: Programming Assignment 03 (/noc23_cs121 /progassignme nt?name=270)	 b) Option (b) c) Option (c) d) Option (d) Yes, the answer is correct. Score: 1
Programming Assignment 04 (/noc23_cs121 /progassignme nt?name=271) Feedback Form of Week 10 (unit? unit=93&lesso n=272) Assignment 10 Solution (unit? unit=93&lesso n=100) Week 11 ()	Accepted Answers: b) Option (b) 1 point What are the correct intermediate steps of the following data set when it is being sorted with the bubble sort? 7,4,1,8,2 a) 4,7,1,8,2 \rightarrow 4,1,7,2,8 \rightarrow 4,1,7,2,8 \rightarrow 1,4,7,2,8 \rightarrow 1,4,7,2,8 \rightarrow 1,4,7,2,8 \rightarrow 1,4,2,7,8 \rightarrow 1,4,2,7,8 \rightarrow 1,4,2,7,8 \rightarrow 1,4,2,7,8 \rightarrow 1,4,2,7,8 \rightarrow 1,4,2,7,8 \rightarrow 1,2,4,7,8 d) 4,7,1,8,2 \rightarrow 4,7,1,2,8 \rightarrow 1,4,2,7,8 \rightarrow 1,2,4,7,8 a) Option(a) b) Option(b) c) Option(c) d) Option(d) Yes, the answer is correct. Score: 1 Accepted Answers:
Week 12 () DOWNLOAD VIDEOS () Books () Text Transcripts ()	7) What is the main disadvantage of the Bisection Method? a) It is computationally expensive b) It cannot find complex roots c) It requires the function to be differentiable d) It is not guaranteed to converge
Problem Solving Session - July 2023 ()	a) Option (a) b) Option (b) c) Option (c) d) Option (d) No, the answer is incorrect. Score: 0 Accepted Answers:
	 What will be the output of the following snippet? int arr[] = {10, 20, 30, 40, 50}; int *ptr1 = arr; int *ptr2 = ptr1 + 3; printf("%d", *ptr2 - *ptr1); 30

Hint

Yes, the answer is correct.

Score: 1

Accepted Answers: (Type: Numeric) 30

1 point

9)

What is the solution of the equation given below using the Bisection Method up to four decimal places? (Consider the root lying on positive quadrant only and compute the root till five iterations only)

$$f(x) = xe^{2x} - 3x^2 - 5$$

1.0312

Hint

Yes, the answer is correct.

Score: 1

Accepted Answers: (Type: Numeric) 1.0312

1 point

0 points

What will be the output?

```
#include <stdio.h>
int main(void)
{
  int a[] = {10, 12, 6, 7, 2};
  int i, *p;
  p=a+4;
  for(i=0; i<5; i++)
  printf("%d ", p[-i]);
  return 0;
}
```

- a) Option (a)
- b) Option (b)
- c) Option (c)
- d) Option (d)

Yes, the answer is correct.

Score: 0

Accepted Answers:

d) Option (d)