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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 10: Assignment 10

The due date for submitting this assignment has passed.

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

Assignment submitted on 2023-10-04, 20:16 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)

Week 6 ()	b) Option (b)	
	c) Option (c)	
Week 7 ()	Od) Option (d)	
Week 8 ()	Yes, the answer is correct. Score: 1	
Week 9 ()	Accepted Answers: a) Option (a)	
Week 10 ()	What is the worst-case time complexity of Linear Search?	1 point
CLecture 46:	a) O(1)	
Bubble Sort	b) O(logn)	
(Contd.) (unit? unit=93&lesso	c) O(n)	
n=94)	d) O(n ²)	
O Lecture 47:	a) Option (a)	
Use of Pointer	b) Option (b)	
in Function :	© c) Option (c)	
Context Bubble Sort	d) Option (d)	
(unit?	Yes, the answer is correct.	
unit=93&lesso	Score: 1	
n=95)	Accepted Answers:	
O Lecture 48:	c) Option (c)	
Arrays at Strings (unit?	4) What is the worst case complexity of hubble sort?	1 point
unit=93&lesso	what is the worst-case complexity of bubble soft?	,
n=96)	a) O(N log N)	
CLecture 49:	b) O(log N)	
Data	c) O(N)	
Representatio n (unit?	d) O(N ²)	
unit=93&lesso	a) Option (a)	
n=97)	b) Option (b)	
Lecture 50:	c) Option (c)	
Bisection Method (unit?	d) Option (d)	
unit=93&lesso	Yes, the answer is correct.	
n=98)	Score: 1	
Quiz: Week	Accepted Answers:	
10:	d) Option (d)	
Assignment 10	5)	1 point
(assessment?	What maximum number of comparisons can occur when a bubble sort is imple	•
name=267)	Assume there are n elements in the array.	
• Week 10 :	a) (1/2) (n-1)	
Programming	b) (1/2) n(n-1)	
Assignment 01	c) (1/4) n(n-1)	
(/noc23_cs121	d) None of the above	
/progassignm	a) Option (a)	
	/ -1	

ent? b) Option (b) name=268) c) Option (c) Week 10 : d) Option (d) **Programming** Yes, the answer is correct. Assignment Score: 1 Accepted Answers: (/noc23_cs121 b) Option (b) /progassignm ent? name=269) What are the correct intermediate steps of the following data set when it is being sorted Week 10 : with the bubble sort? 7,4,1,8,2 **Programming** a) $4.7.1.8.2 \rightarrow 4.1.7.2.8 \rightarrow 4.1.2.7.8 \rightarrow 1.4.2.7.8 \rightarrow 1.2.4.7.8$ Assignment b) $4,7,1,8,2 \rightarrow 4,1,7,8,2 \rightarrow 4,1,7,2,8 \rightarrow 1,4,7,2,8 \rightarrow 1,4,2,7,8 \rightarrow 1,2,4,7,8$ c) $4,7,1,8,2 \rightarrow 1,4,7,8,2 \rightarrow 1,4,2,7,8 \rightarrow 1,2,4,7,8$ (/noc23_cs121 /progassignm d) $4,7,1,8,2 \rightarrow 4,7,1,2,8 \rightarrow 1,4,7,2,8 \rightarrow 1,4,2,7,8 \rightarrow 1,2,4,7,8$ ent? name=270) a) Option(a) b) Option(b) Week 10 : **Programming** c) Option(c) Assignment d) Option(d) 04 (/noc23 cs121 Yes, the answer is correct. Score: 1 /progassignm ent? Accepted Answers: name=271) b) Option(b) Feedback 7) Form of Week What is the main disadvantage of the Bisection Method? 10 (unit? a) It is computationally expensive unit=93&lesso It cannot find complex roots n=272) It requires the function to be differentiable d) It is not guaranteed to converge Week 11 () a) Option (a) **DOWNLOAD** VIDEOS () b) Option (b) c) Option (c) Books () d) Option (d) No. the answer is incorrect. **Text** Score: 0 Transcripts () Accepted Answers: b) Option (b) **Problem** Solving 8) What will be the output of the following snippet? Session -

 $int arr[] = \{10, 20, 30, 40, 50\};$

printf("%d", *ptr2 - *ptr1);

int *ptr1 = arr;

int *ptr2 = ptr1 + 3;

30

July 2023 ()

1 point

1 point

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

10) What will be the output?

1 point

```
#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: 1

Accepted Answers:

d) Option (d)