

GH	<u>GADDAM HARSHAVARDHAN REDDY</u>
<b>Started on</b>	Saturday, 16 November 2024, 9:49 PM
<b>State</b>	Finished
<b>Completed on</b>	Saturday, 16 November 2024, 11:09 PM
<b>Time taken</b>	1 hour 19 mins
<b>Marks</b>	114.00/140.00
<b>Grade</b>	<b>8.14</b> out of 10.00 ( <b>81.43%</b> )

**Question 1**

Incorrect

Mark 0.00 out of 1.00

[v2 \(latest\)](#)

What will be the value of even counter if number = 2630?

Read number

```
Function divisible(number)
even_counter = 0, num_remainder = number;
while (num_remainder)
    digit = num_remainder % 10;
    If digit != 0 AND number % digit == 0
        even_counter= even_counter+1
    End If
    num_remainder= num_remainder / 10
End While
return even_counte
```

- a. 3
- b. 2 X
- c. 1
- d. 4
- e. 0

Your answer is incorrect.

The correct answer is: 1

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:50:25	Saved: 2	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 2**

Correct

Mark 1.00 out of 1.00

[v1 \(latest\)](#)

In an empty BST, insert the following elements in the given sequence: 105, 95, 122, 99, 97, 120. Which element will be at the lowest level?

Select one:

- 1. 95
- 2. 97 ✓
- 3. 99
- 4. 120

The correct answer is: 97

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:51:04	Saved: 120	Answer saved	
3	16/11/24, 22:22:55	Saved: 97	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 3**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following devices combines transmissions from different input/output devices into one line?

Select one:

- 1. Repeater
- 2. Multiplexer ✓
- 3. Concentrator
- 4. Modifier

The correct answer is: Multiplexer

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:51:16	Saved: Concentrator	Answer saved	
3	16/11/24, 22:23:17	Saved: Multiplexer	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 4**

Correct

Mark 1.00 out of 1.00

[v2 \(latest\)](#)

Consider the following C function

```
void swap(int x, int y) {  
    int tmp;  
    tmp = x;  
    x = y;  
    y = tmp;  
}
```

In order to exchange the values of two variables a and b:

- a. Call swap (a, b)
- b. swap(a, b) cannot be used as it does not return any value
- c. swap(a, b) cannot be used as the parameters passed by value ✓
- d. Call swap (&a, &b)

Your answer is correct.

The correct answer is: swap(a, b) cannot be used as the parameters passed by value

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:51:58	Saved: Call swap (&a, &b)	Answer saved	
3	16/11/24, 22:24:04	Saved: swap(a, b) cannot be used as the parameters passed by value	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 5**

Correct

Mark 1.00 out of 1.00

[v2 \(latest\)](#)

How will you find the minimum element in a binary search tree?

- a. 

```
public void min(Tree root)
{
    while(root != null)
    {
        root = root.right();
    }
    System.out.println(root.data());
}
```
- b. 

```
public void min(Tree root)      ✓
{
    while(root.left() != null)
    {
        root = root.left();
    }
    System.out.println(root.data());
}
```
- c. 

```
public void min(Tree root)
{
    while(root.right() != null)
    {
        root = root.right();
    }
    System.out.println(root.data());
}
```
- d. 

```
public void min(Tree root)
{
    while(root != null)
    {
        root = root.left();
    }
    System.out.println(root.data());
}
```

Your answer is correct.

The correct answer is: 

```
public void min(Tree root)
```

```
{ 
while(root.left() != null)
{
    root = root.left();
}
System.out.println(root.data());
}
```

## Response history

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:53:00	Saved: public void min(Tree root) { while(root.left() != null) { root = root.left(); } System.out.println(root.data()); }	Answer saved	
3	16/11/24, 23:09:31	<b>Attempt finished</b>	<b>Correct</b>	<b>1.00</b>

### Question 6

Correct

Mark 1.00 out of 1.00

v1 (latest)

A type of linked list, say X, consists of nodes divided into three parts:

Select one:

- 1. Circular linked list
- 2. Singly linked list
- 3. Doubly linked list ✓
- 4. None

The correct answer is: Doubly linked list

## Response history

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:53:18	Saved: Circular linked list	Answer saved	
3	16/11/24, 22:25:45	Saved: Doubly linked list	Answer saved	
4	16/11/24, 23:09:31	<b>Attempt finished</b>	<b>Correct</b>	<b>1.00</b>

**Question 7**

Correct

Mark 1.00 out of 1.00

**v1 (latest)**

If a binary search tree (BST) is created by inserting numbers from left to right, what would be its height? Given numbers: 1, 4, 3, 5, 7, 9:

Select one:

- 1. 5
- 2. 4 ✓
- 3. 3
- 4. 2

The correct answer is: 4

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:54:26	Saved: 4	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 8**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Arrange the following layers of the TCP/IP model in the correct sequence: 1=> Application 2=> Internet 3=> Physical 4=> Data-Link  
5=> Transport

Select one:

- 1. 3-2-5-4-1
- 2. 3-4-5-2-1
- 3. 3-4-2-5-1 ✓
- 4. 1-2-3-5-4

The correct answer is: 3-4-2-5-1

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:55:10	Saved: 3-4-5-2-1	Answer saved	
3	16/11/24, 22:27:42	Saved: 3-4-2-5-1	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 9**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

In a "many-to-many" relationship, which of the following is required to model this relationship in a relational database?

Select one:

- 1. A composite primary key
- 2. A junction table ✓
- 3. A foreign key constraint
- 4. An index

The correct answer is: A junction table

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:56:32	Saved: An index	Answer saved	
3	16/11/24, 22:28:08	Saved: A junction table	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 10**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Convert the following infix expression into prefix expression: ( A + B ) \* ( C + D )

Select one:

- 1. A B + C D + \*
- 2. + + A \* B C D
- 3. \* + A B + C D ✓
- 4. A B C \* + D +

The correct answer is: \* + A B + C D

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:56:56	Saved: A B + C D + *	Answer saved	
3	16/11/24, 22:28:35	Saved: * + A B + C D	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 11**

Correct

Mark 1.00 out of 1.00

[v2 \(latest\)](#)

What will be the output of the following pseudo code for a=50?

```
Integer fun( Integer a)
Integer b
Set b = 10
Return a-b
End function fun()
```

- a. 50
- b. None
- c. 60
- d. 70
- e. 40 ✓

Your answer is correct.

The correct answer is: 40

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:57:24	Saved: 40	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 12**

Correct

Mark 1.00 out of 1.00

Consider a stack of integers allocated with 5 memory cells: STACK: 1, 3, 3, \_\_ \_\_ After performing the operations: I=> PUSH(STACK, 4) II=> PUSH(STACK, 10) III=> POP(STACK, ITEM) What value will be stored in ITEM?

Select one:

- 1. 1
- 2. 4
- 3. 10 ✓
- 4. 3

The correct answer is: 10

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:57:59	Saved: 10	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 13**

Incorrect

Mark 0.00 out of 1.00

**v1 (latest)**

Which of the following is/are true? 1=> Only the set of non-essential attributes of a relation can be a part of the candidate key of that relation. 2=> Only essential attributes of a relation can be a part of the candidate key of that relation. 3=> A set of essential and non-essential attributes can be a part of the candidate key of that relation.

Select one:

- 1. Only 1
- 2. None of the above-mentioned options
- 3. Only 3
- 4. Only 2 **X**

The correct answer is: Only 3

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:58:28	Saved: Only 1	Answer saved	
3	16/11/24, 21:58:32	Saved: Only 3	Answer saved	
4	16/11/24, 22:29:40	Saved: Only 2	Answer saved	
5	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 14**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

In RDBMS, different classes of relations are created using \_\_\_\_\_ to prevent modification anomalies.

Select one:

- 1. Functional Dependencies
- 2. Data Integrity
- 3. Referential Integrity
- 4. Normal Forms ✓

The correct answer is: Normal Forms

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:58:54	Saved: Normal Forms	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 15**

Correct

Mark 1.00 out of 1.00

**v1 (latest)**

Which of the following is a structured data store that supports indexing and data queries to both EC2 and S3?

Select one:

- 1. CloudFront
- 2. CloudWatch
- 3. All of the mentioned options
- 4. Simple DB ✓

The correct answer is: Simple DB

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:59:15	Saved: Simple DB	Answer saved	
3	16/11/24, 23:09:31	<b>Attempt finished</b>	<b>Correct</b>	<b>1.00</b>

**Question 16**

Correct

Mark 1.00 out of 1.00

**v1 (latest)**

In cloud computing, which of the following characteristics allows users to release resources as soon as they are not required?

Select one:

- 1. Customization
- 2. Per usage metering
- 3. Elasticity ✓
- 4. Self-service

The correct answer is: Elasticity

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 21:59:43	Saved: Self-service	Answer saved	
3	16/11/24, 22:30:43	Saved: Elasticity	Answer saved	
4	16/11/24, 23:09:31	<b>Attempt finished</b>	<b>Correct</b>	<b>1.00</b>

**Question 17**

Incorrect

Mark 0.00 out of 1.00

[v1 \(latest\)](#)

Consider an array S = {1, 1, 1, 2, 4, 3, 4, 3, 4, 3, 2, 2, 3, 4, 3}. After the following operations: 1=> Duplicates are removed. 2=> 4 is appended. 3=> 1 is appended. 4=> 2 is appended. 5=> Duplicates are removed. Calculate the sum of all the elements of the array.

Select one:

- 1. 6
- 2. 8
- 3. 9
- 4. 10 X

The correct answer is: 8

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:00:42	Saved: 10	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 18**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Due to which of the following characteristics of cloud computing are additional resources added when an application load increases?

Select one:

- 1. Self-service
- 2. Elasticity ✓
- 3. Customization
- 4. Per-usage billing

The correct answer is: Elasticity

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:01:31	Saved: Customization	Answer saved	
3	16/11/24, 22:31:26	Saved: Elasticity	Answer saved	
4	16/11/24, 23:09:31	<b>Attempt finished</b>	<b>Correct</b>	<b>1.00</b>

**Question 19**

Incorrect

Mark 0.00 out of 1.00

(v5 (latest))

Consider the following piece of code. What will be the space required for this code?

```
int sum(int A[], int n)
{
    int sum = 0, i;
    for(i = 0; i < n; i++)
        sum = sum + A[i];
    return sum;
}
// sizeof(int) = 2 bytes
```

- a.  $2n$
- b.  $2n + 6$
- c.  $2n + 8$
- d.  $2n + 4$  X
- e.  $2n + 2$

Your answer is incorrect.

The correct answer is:  $2n + 8$

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:02:10	Saved: $2n$	Answer saved	
3	16/11/24, 22:31:55	Saved: $2n + 4$	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 20**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following commands is used to delete a table in SQL?

Select one:

- 1. DELETE
- 2. TRUNCATE
- 3. REMOVE
- 4. DROP ✓

The correct answer is: DROP

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:02:29	Saved: DROP	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 21**

Incorrect

Mark 0.00 out of 1.00

(v1 (latest))

If using Bubble Sort to sort numbers in ascending order, how many swaps are needed for: 12, 16, 10, 7, 13, 3, 9:

Select one:

- 1. 14
- 2. 16 X
- 3. 12
- 4. 15

The correct answer is: 14

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:03:01	Saved: 16	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 22**

Incorrect

Mark 0.00 out of 1.00

(v1 (latest))

Evaluate the postfix expression  $6\ 5\ 2\ 3\ +\ 8\ *\ +\ 3\ +\ *:$ 

Select one:

- 1. 312
- 2. 288 X
- 3. 302
- 4. 308

The correct answer is: 312

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:03:28	Saved: 288	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 23**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following characteristics of cloud computing provides computing capabilities bundled with services with or without an approval process powered by automation and workflows?

Select one:

- 1. Broad network access
- 2. Resource pooling
- 3. Rapid elasticity
- 4. On-demand self-service ✓

The correct answer is: On-demand self-service

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:03:43	Saved: Resource pooling	Answer saved	
3	16/11/24, 22:03:50	Saved: On-demand self-service	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 24**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following devices breaks collision domains but not broadcast domains?

Select one:

- 1. Switch ✓
- 2. Repeater
- 3. Hub
- 4. Router

The correct answer is: Switch

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:04:04	Saved: Repeater	Answer saved	
3	16/11/24, 22:34:22	Saved: Switch	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 25**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

A view of the database that appears to an application program is known as:

Select one:

- 1. Schema
- 2. Subschema ✓
- 3. Virtual table
- 4. Index Table

The correct answer is: Subschema

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:04:26	Saved: Subschema	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 26**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following checks the cloud service control, verifies adherence to standards, and examines areas such as privacy and performance levels?

Select one:

- 1. Cloud carrier
- 2. Load dispatcher
- 3. Monitor of services
- 4. Cloud auditor ✓

The correct answer is: Cloud auditor

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:04:46	Saved: Cloud auditor	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 27**

Partially correct

Mark 35.00 out of 50.00

(v8 (latest))

Write an essay on "The Influence of Social Media".

Minimum word limit is 150 and the Maximum word limit is 200.

Social media is easy way we communicate, share information, and interact with the world. Platforms such as Facebook, Instagram Twitter, and TikTok have become integral parts of our daily life, affecting individuals and societies. One of the most significant impacts of social media is its ability to connect people globally, enabling communication across geographical boundaries. This has fostered a sense of community and allowed for the rapid spread of ideas, news, and culture.

The influence of social media is not purely positive. It has contributed to issues such as misinformation, cyberbullying, and addiction. The ease of sharing content has led to the widespread distribution of false information, which can have harmful consequences. Additionally, the constant need for validation through likes and comments can lead to decreased especially among young users.

Despite these drawbacks, social media has revolutionized marketing, entertainment, politics also. It has provided

Word count: 160

Comment: The text contains several grammatical errors and issues with coherence and cohesion. The phrase 'decreased especially among young users' lacks clarity and coherence, possibly missing a word like 'self-esteem'. The sentence structure throughout the text is somewhat repetitive and lacks variety, impacting the grammatical range. Additionally, the use of commas is inconsistent, affecting punctuation. Lexical resources are adequate but could be enhanced with more varied vocabulary. Overall, these issues significantly detract from the quality of the writing.

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Commented: The text contains several grammatical errors and issues with coherence and cohesion. The phrase 'decreased especially among young users' lacks clarity and coherence, possibly missing a word like ...	Not yet answered	
2	16/11/24, 23:05:38	Saved: Social media has dramatically transformed the way we communicate, share information, and interact with the world. Platforms such as Facebook, Instagram Twitter, and TikTok have become integral parts of our daily life, affecting individuals and societies. One of the most significant impacts of social media is its ability to connect people globally, enabling communication across geographical boundaries. This has fostered a sense of community and allowed for the rapid spread of ideas, news, and culture. The influence of social media is not purely positive. It has contributed to issues such as misinformation, cyberbullying, and addiction. The ease of sharing content has led to the widespread distribution of false information, which can have harmful consequences. Additionally, the constant need for validation through likes and comments can lead to decreased especially among young users.	Incomplete answer	

Step	Time	Action	State	Marks
3	16/11/24, 23:08:20	Saved: Social media has dramatically transformed the way we communicate, share information, and interact with the world. Platforms such as Facebook, Instagram Twitter, and TikTok have become integral parts of our daily life, affecting individuals and societies. One of the most significant impacts of social media is its ability to connect people globally, enabling communication across geographical boundaries. This has fostered a sense of community and allowed for the rapid spread of ideas, news, and culture. The influence of social media is not purely positive. It has contributed to issues such as misinformation, cyberbullying, and addiction. The ease of sharing content has led to the widespread distribution of false information, which can have harmful consequences. Additionally, the constant need for validation through likes and comments can lead to decreased especially among young users. Despite these drawbacks, social media has revolutionized marketing, entertainment, politics also. It has provided businesses with new opportunities to reach audiences and enabled individuals to raise awarness about social issues.	Answer saved	
4	16/11/24, 23:09:17	Saved: Social media is easy way we communicate, share information, and interact with the world. Platforms such as Facebook, Instagram Twitter, and TikTok have become integral parts of our daily life, affecting individuals and societies. One of the most significant impacts of social media is its ability to connect people globally, enabling communication across geographical boundaries. This has fostered a sense of community and allowed for the rapid spread of ideas, news, and culture. The influence of social media is not purely positive. It has contributed to issues such as misinformation, cyberbullying, and addiction. The ease of sharing content has led to the widespread distribution of false information, which can have harmful consequences. Additionally, the constant need for validation through likes and comments can lead to decreased especially among young users. Despite these drawbacks, social media has revolutionized marketing, entertainment, politics also. It has provided businesses with new opportunities to reach audiences and enabled individuals to raise awarness about social issues.	Answer saved	
5	16/11/24, 23:09:31	Attempt finished	Partially correct	35.00

**Question 28**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

Which of the following is not a valid declaration in C?

- 1.short int x;
- 2.signed short x;
- 3.short x;
- 4,unsigned short x;

- a. 3 and 4
- b. 2
- c. 1
- d. All are valid ✓

Your answer is correct.

The correct answer is: All are valid

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:05:56	Saved: 2	Answer saved	
3	16/11/24, 22:35:35	Saved: All are valid	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 29**

Correct

Mark 1.00 out of 1.00

 v1 (latest)

What does the following SQL query do? SELECT COUNT(\*) FROM Orders;

Select one:

- 1. Counts the number of orders in the Orders table. ✓
- 2. Updates the number of orders.
- 3. Deletes the Orders table.
- 4. Creates a new Orders table.

The correct answer is: Counts the number of orders in the Orders table.

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:06:17	Saved: Counts the number of orders in the Orders table.	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 30**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

What does the following piece of code do?

```
public void func(Tree root)
{
    func(root.left());
    func(root.right());
    System.out.println(root.data());
}
```

- a. Level order traversal
- b. Preorder traversal
- c. Postorder traversal ✓
- d. inorder traversal

Your answer is correct.

The correct answer is: Postorder traversal

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:06:48	Saved: inorder traversal	Answer saved	
3	16/11/24, 22:36:21	Saved: Postorder traversal	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 31**

Correct

Mark 1.00 out of 1.00

[v2 \(latest\)](#)

What will be the output of the following pseudo code?

```
Integer a
Integer p
Set a=8
p=a+5/7*4
print p*8
```

- a. 54
- b. 7
- c. 8
- d. 64 ✓
- e. 0

Your answer is correct.

The correct answer is: 64

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:08:55	Saved: 8	Answer saved	
3	16/11/24, 22:37:02	Saved: 64	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 32**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following data structures is non-linear?

Select one:

- 1. Stack
- 2. Array
- 3. Graph ✓
- 4. Linked List

The correct answer is: Graph

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:09:26	Saved: Graph	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 33**

Correct

Mark 1.00 out of 1.00

[v2 \(latest\)](#)

What is the output of the code given below?

```
#include <stdio.h>
int main()
{
char ch = 'A';
printf("%d\n", ch);
return 0;
}
```

- a. 97
- b. 'A'
- c. A
- d. 65 ✓

Your answer is correct.

The correct answer is: 65

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:09:46	Saved: 97	Answer saved	
3	16/11/24, 22:37:33	Saved: 65	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 34**

Incorrect

Mark 0.00 out of 1.00

 v1 (latest)

Consider an array of integers  $A = \{1, 2, 6, 5, 7, 8, 9, 6, 7\}$  and  $\{2, 2, 2, 4, 5, 2, 2, 1, 2\}$ . A function named min takes an array as a parameter and returns the minimum element. Find the value of the expression  $\min(A[0]) + \min(A[1])$ :

Select one:

- 1. 2 X
- 2. 3
- 3. 4
- 4. 5

The correct answer is: 3

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:10:34	Saved: 2	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 35**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

What will be the output of the following pseudo code for input 134 ?

```
Integer fun( Integer num )
Static Integer a = 0
If (num > 0)
a = a + 1
fun ( num /10 )
Else
Return a
End Function
```

- a. 2
- b. 3 ✓
- c. 8
- d. 43
- e. 431

Your answer is correct.

The correct answer is: 3

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:12:20	Saved: 3	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 36**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following is NOT a characteristic of a DBMS?

Select one:

- 1. Data Redundancy ✓
- 2. Data Integrity
- 3. Data Security
- 4. Data Independence

The correct answer is: Data Redundancy

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:13:01	Saved: Data Independence	Answer saved	
3	16/11/24, 22:38:50	Saved: Data Redundancy	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 37**

Correct

Mark 20.00 out of 20.00

(v2 (latest))

**Problem Statement:**

Write a program to reverse an array of integers. The program should take the size of the array and the elements of the array as input and output the reversed array.

**Sample TestCases:****Sample Input 1:**

5 1 2 3 4 5

**Sample Output 1:**

5 4 3 2 1

**Sample Input 2:**

2 1 2

**Sample Output 2:**

2 1

**Sample Input 3:**

3 8 9 10

**Sample Output 3:**

10 9 8

**Constraints:**

The first line contains a single integer  $n$  ( $1 \leq n \leq 10^5$ ) – the size of the array.

The second line contains  $n$  space-separated integers, the elements of the array, where each element  $\text{arr}[i]$  satisfies:  $-10^6 \leq \text{arr}[i] \leq 10^6$ .

**For example:**

Test	Input	Result
Sample Test Case 1	5 1 2 3 4 5	5 4 3 2 1
Sample Test Case 2	2 1 2	2 1
Sample Test Case 3	3 8 9 10	10 9 8

**Answer:** (penalty regime: 10, 20, ... %)Language  ▾

```

1 #include<iostream>
2 #include<vector>
3 using namespace std;
4 int main(){
5     int n;
6     cin>>n;
7     vector<int>arr(n);
8     for(int i=0;i<n;i++){
9         cin>>arr[i];
10    }
11    for(int i=n-1;i>=0;i--){
12        cout<<arr[i]<<" ";

```

13	}
14	}

11

Test	Input	Expected	Got	
✓ Sample Test Case 1	5 1 2 3 4 5	5 4 3 2 1	5 4 3 2 1	✓
✓ Sample Test Case 2	2 1 2	2 1	2 1	✓
✓ Sample Test Case 3	3 8 9 10	10 9 8	10 9 8	✓
✓ Hidden Test Case 1	37 96 79 6 84 70 45 37 21 35 80 53 96 88 99 28 79 10 20 12 22 28 15 35 22 41 62 83 19 8 1 95 3 28 36 24 32 79	79 32 24 36 28 3 95 1 8 19 83 62 41 22 35 15 28 22 12 20 10 79 28 99 88 96 53 80 35 21 37 45 70 84 6 79 96	79 32 24 36 28 3 95 1 8 19 83 62 41 22 35 15 28 22 12 20 10 79 28 99 88 96 53 80 35 21 37 45 70 84 6 79 96	✓
✓ Hidden Test Case 2	47 68 84 39 87 26 50 12 71 53 94 14 42 91 34 13 30 53 52 38 97 50 86 88 3 90 7 59 48 33 7 7 84 51 57 1 78 33 11 17 77 62 80 62 10 42 50 94	94 50 42 10 62 80 62 77 17 11 33 78 1 57 51 84 7 7 33 48 59 7 90 3 88 86 50 97 38 52 53 30 13 34 91 42 14 94 53 71 12 50 26 87 39 84 68	94 50 42 10 62 80 62 77 17 11 33 78 1 57 51 84 7 7 33 48 59 7 90 3 88 86 50 97 38 52 53 30 13 34 91 42 14 94 53 71 12 50 26 87 39 84 68	✓
✓ Hidden Test Case 3	21 27 6 45 23 88 81 55 52 66 55 51 28 59 54 60 21 56 46 18 63 1	1 63 18 46 56 21 60 54 59 28 51 55 66 52 55 81 88 23 45 6 27	1 63 18 46 56 21 60 54 59 28 51 55 66 52 55 81 88 23 45 6 27	✓
✓ Hidden Test Case 4	95 31 23 15 7 87 85 14 99 80 82 60 41 30 67 26 70 48 89 24 69 88 37 57 35 43 61 65 53 10 99 38 4 82 95 19 71 3 91 14 39 78 19 34 75 26 94 65 8 51 77 25 32 6 18 13 14 3 54 35 86 41 20 100 80 16 18 41 89 36 13 8 70 22 60 27 72 94 97 7 76 37 100 10 21 59 41 78 15 83 19 56 4 60 99 14	14 99 60 4 56 19 83 15 78 41 59 21 10 100 37 76 7 97 94 72 27 60 22 70 8 13 36 89 41 18 16 80 100 20 41 86 35 54 3 14 13 18 6 32 25 77 51 8 65 94 26 75 34 19 78 39 14 91 3 71 19 95 82 4 38 99 10 53 65 61 43 35 57 37 88 69 24 89 48 70 26 67 30 41 60 82 80 99 14 85 87 7 15 23 31	14 99 60 4 56 19 83 15 78 41 59 21 10 100 37 76 7 97 94 72 27 60 22 70 8 13 36 89 41 18 16 80 100 20 41 86 35 54 3 14 13 18 6 32 25 77 51 8 65 94 26 75 34 19 78 39 14 91 3 71 19 95 82 4 38 99 10 53 65 61 43 35 57 37 88 69 24 89 48 70 26 67 30 41 60 82 80 99 14 85 87 7 15 23 31	✓
✓ Hidden Test Case 5	34 40 66 93 71 59 53 8 96 96 37 70 48 40 45 28 55 73 85 16 34 69 88 10 32 83 6 29 37 2 49 16 36 83 25	25 83 36 16 49 2 37 29 6 83 32 10 88 69 34 16 85 73 55 28 45 40 48 70 37 96 96 8 53 59 71 93 66 40	25 83 36 16 49 2 37 29 6 83 32 10 88 69 34 16 85 73 55 28 45 40 48 70 37 96 96 8 53 59 71 93 66 40	✓
✓ Hidden Test Case 6	3 87 72 66	66 72 87	66 72 87	✓

	Test	Input	Expected	Got	
✓	Hidden Test Case 7	66 9 44 95 11 47 14 41 93 78 60 82 37 7 62 58 5 86 35 54 55 21 44 83 57 85 46 27 57 100 69 17 4 9 57 6 73 77 93 30 90 51 64 46 56 76 82 86 62 86 18 29 18 49 57 82 48 64 53 3 70 95 38 40 95 20 72	72 20 95 40 38 95 70 3 53 64 48 82 57 49 18 29 18 86 62 86 82 76 56 46 64 51 90 30 93 77 73 6 57 9 4 17 69 100 57 27 46 85 57 83 44 21 55 54 35 86 5 58 62 7 37 82 60 78 93 41 14 47 11 95 44 9	72 20 95 40 38 95 70 3 53 64 48 82 57 49 18 29 18 86 62 86 82 76 56 46 64 51 90 30 93 77 73 6 57 9 4 17 69 100 57 27 46 85 57 83 44 21 55 54 35 86 5 58 62 7 37 82 60 78 93 41 14 47 11 95 44 9	✓
✓	Hidden Test Case 8	97 1 6 19 47 43 3 83 19 25 76 4 89 98 57 28 86 76 62 89 63 46 3 75 33 79 22 71 75 40 53 53 19 14 82 17 41 43 43 43 12 50 97 55 64 61 15 20 76 70 74 52 13 7 69 11 60 66 15 24 35 3 61 27 41 70 88 100 57 33 35 88 55 77 28 44 37 67 16 91 20 82 19 52 68 80 35 83 1 88 47 72 25 96 6 4 86 86	86 86 4 6 96 25 72 47 88 1 83 35 80 68 52 19 82 20 91 16 67 37 44 28 77 55 88 35 33 57 100 88 70 41 27 61 3 35 24 15 66 60 11 69 7 13 52 74 70 76 20 15 61 64 55 97 50 12 43 43 43 41 17 82 14 19 53 53 40 75 71 22 79 33 75 3 46 63 89 62 76 86 28 57 98 89 4 76 25 19 83 3 43 47 19 6 1	86 86 4 6 96 25 72 47 88 1 83 35 80 68 52 19 82 20 91 16 67 37 44 28 77 55 88 35 33 57 100 88 70 41 27 61 3 35 24 15 66 60 11 69 7 13 52 74 70 76 20 15 61 64 55 97 50 12 43 43 43 41 17 82 14 19 53 53 40 75 71 22 79 33 75 3 46 63 89 62 76 86 28 57 98 89 4 76 25 19 83 3 43 47 19 6 1	✓
✓	Hidden Test Case 9	19 54 53 100 17 100 59 100 99 41 77 78 53 26 51 9 48 42 73 82	82 73 42 48 9 51 26 53 78 77 41 99 100 59 100 17 100 53 54	82 73 42 48 9 51 26 53 78 77 41 99 100 59 100 17 100 53 54	✓
✓	Hidden Test Case 10	66 25 74 42 8 34 61 96 89 43 57 72 7 82 48 68 79 97 92 50 74 10 8 34 10 10 37 37 55 59 20 7 7 95 10 96 36 81 73 84 13 47 74 31 58 53 57 25 78 82 17 70 4 78 71 65 34 80 12 85 83 3 30 42 59 40 36	36 40 59 42 30 3 83 85 12 80 34 65 71 78 4 70 17 82 78 25 57 53 58 31 74 47 13 84 73 81 36 96 10 95 7 7 20 59 55 37 37 10 10 34 8 10 74 50 92 97 79 68 48 82 7 72 57 43 89 96 61 34 8 42 74 25	36 40 59 42 30 3 83 85 12 80 34 65 71 78 4 70 17 82 78 25 57 53 58 31 74 47 13 84 73 81 36 96 10 95 7 7 20 59 55 37 37 10 10 34 8 10 74 50 92 97 79 68 48 82 7 72 57 43 89 96 61 34 8 42 74 25	✓
✓	Hidden Test Case 11	33 34 73 83 45 23 85 45 33 2 67 35 90 43 49 70 71 64 78 19 85 98 8 35 82 10 22 26 77 81 77 4 27 43	43 27 4 77 81 77 26 22 10 82 35 8 98 85 19 78 64 71 70 49 43 90 35 67 2 33 45 85 23 45 83 73 34	43 27 4 77 81 77 26 22 10 82 35 8 98 85 19 78 64 71 70 49 43 90 35 67 2 33 45 85 23 45 83 73 34	✓
✓	Hidden Test Case 12	91 93 55 68 92 2 14 68 84 100 55 69 83 56 89 64 40 92 42 8 37 85 65 34 21 95 8 93 73 15 56 71 17 23 54 5 37 57 33 48 30 16 24 71 51 39 30 25 11 21 9 12 17 6 9 45 44 52 76 63 74 71 36 32 5 79 64 90 29 76 19 28 49 23 96 6 22 81 91 24 29 39 58 51 4 77 75 62 92 87 10 97	97 10 87 92 62 75 77 4 51 58 39 29 24 91 81 22 6 96 23 49 28 19 76 29 90 64 79 5 32 36 71 74 63 76 52 44 45 9 6 17 12 9 21 11 25 30 39 51 71 24 16 30 48 33 57 37 5 54 23 17 71 56 15 73 93 8 95 21 34 65 85 37 8 42 92 40 64 89 56 83 69 55 100 84 68 14 2 92 68 55 93	97 10 87 92 62 75 77 4 51 58 39 29 24 91 81 22 6 96 23 49 28 19 76 29 90 64 79 5 32 36 71 74 63 76 52 44 45 9 6 17 12 9 21 11 25 30 39 51 71 24 16 30 48 33 57 37 5 54 23 17 71 56 15 73 93 8 95 21 34 65 85 37 8 42 92 40 64 89 56 83 69 55 100 84 68 14 2 92 68 55 93	✓
✓	Hidden Test Case 13	54 92 31 97 7 55 49 96 46 18 25 28 19 55 85 82 97 61 27 28 20 87 72 24 84 3 55 6 91 82 9 71 78 88 6 20 98 48 46 37 2 42 63 26 75 7 44 89 31 76 87 92 51 43 66	66 43 51 92 87 76 31 89 44 7 75 26 63 42 2 37 46 48 98 20 6 88 78 71 9 82 91 6 55 3 84 24 72 87 20 28 27 61 97 82 85 55 19 28 25 18 46 96 49 55 7 97 31 92	66 43 51 92 87 76 31 89 44 7 75 26 63 42 2 37 46 48 98 20 6 88 78 71 9 82 91 6 55 3 84 24 72 87 20 28 27 61 97 82 85 55 19 28 25 18 46 96 49 55 7 97 31 92	✓

	Test	Input	Expected	Got	
✓	Hidden Test Case 14	81 88 87 7 79 39 23 30 62 49 56 75 98 82 66 79 40 52 68 79 72 35 99 51 98 85 44 99 16 49 15 67 24 58 74 29 1 68 45 6 67 26 42 2 7 16 27 14 39 32 40 16 81 67 5 70 59 73 70 28 51 20 73 65 53 80 74 81 94 40 82 18 32 36 14 9 39 89 62 74 73 97	97 73 74 62 89 39 9 14 36 32 18 82 40 94 81 74 80 53 65 73 20 51 28 70 73 59 70 5 67 81 16 40 32 39 14 27 16 7 2 42 26 67 6 45 68 1 29 74 58 24 67 15 49 16 99 44 85 98 51 99 35 72 79 68 52 40 79 66 82 98 75 56 49 62 30 23 39 79 7 87 88	97 73 74 62 89 39 9 14 36 32 18 82 40 94 81 74 80 53 65 73 20 51 28 70 73 59 70 5 67 81 16 40 32 39 14 27 16 7 2 42 26 67 6 45 68 1 29 74 58 24 67 15 49 16 99 44 85 98 51 99 35 72 79 68 52 40 79 66 82 98 75 56 49 62 30 23 39 79 7 87 88	✓

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

## Response history

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not complete	
2	16/11/24, 22:54:48	Prechecked: #include<iostream> #include<vector> using namespace std; int main(){ int n; cin>>n; vector<int>arr(n); for(int i=0;i<n;i++){ cin>>arr[i]; } for(int i=n-1;i>=0;i--){ cout<<arr[i]; } }	Precheck results	
3	16/11/24, 22:55:14	Prechecked: #include<iostream> #include<vector> using namespace std; int main(){ int n; cin>>n; vector<int>arr(n); for(int i=0;i<n;i++){ cin>>arr[i]; } for(int i=n-1;i>=0;i--){ cout<<arr[i]<<" "; } }	Precheck results	
4	16/11/24, 22:55:26	Submit: #include<iostream> #include<vector> using namespace std; int main(){ int n; cin>>n; vector<int>arr(n); for(int i=0;i<n;i++){ cin>>arr[i]; } for(int i=n-1;i>=0;i--){ cout<<arr[i]<<" "; } }	Correct	20.00
5	16/11/24, 23:09:31	<b>Attempt finished submitting: {\$a}</b>	Correct	20.00

**Question 38**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

In the Consumption-Based Price Model, the usage of which of the following computing resources is included? 1=> Amount of storage 2=> Computing or processing power 3=> Memory

Select one:

- 1. 1&3
- 2. 1,2&3 ✓
- 3. 2&3
- 4. 1&2

The correct answer is: 1,2&3

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:13:35	Saved: 1,2&3	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 39**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

What will be the output of the following pseudo code ?

```
Integer x, y, z  
Set x=0, y=1  
For( each z from 0 to 2 )  
    x = x + y + z  
End for  
print x
```

- a. 7
- b. 9
- c. 6 ✓
- d. 8
- e. 5

Your answer is correct.

The correct answer is: 6

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:15:07	Saved: 5	Answer saved	
3	16/11/24, 22:39:50	Saved: 6	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 40**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Repeaters work on which of the following layers of the OSI model?

Select one:

- 1. Session layer
- 2. Physical layer ✓
- 3. Network layer
- 4. Data link layer

The correct answer is: Physical layer

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:15:16	Saved: Physical layer	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 41**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Consider an array A = {2, 4, 61, 17, 8, 10, 13, 34, 67, 98} and key element equals 88. How many comparisons will it take to find the key element using a linear search algorithm?

Select one:

- 1. 11
- 2. 8
- 3. 9
- 4. 10 ✓

The correct answer is: 10

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:15:48	Saved: 9	Answer saved	
3	16/11/24, 22:40:31	Saved: 10	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 42**

Incorrect

Mark 0.00 out of 1.00

(v1 (latest))

Relation R has eight attributes ABCDEFGH. Fields of R contain only atomic values. Given FDs: F = {CH  $\rightarrow$  G, A  $\rightarrow$  BC, B  $\rightarrow$  CFH, E  $\rightarrow$  A, F  $\rightarrow$  EG}. How many candidate keys does the relation R have?

Select one:

- 1. 3
- 2. 4 X
- 3. 5
- 4. 6

The correct answer is: 5

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:16:20	Saved: 6	Answer saved	
3	16/11/24, 22:40:49	Saved: 4	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 43**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

What will be the output of the following pseudo code?

Input m=8,n=6

m=m+1

N=n-1

m=m+n

if (m>n)

print m

else

print n

- a. 10
- b. 15
- c. 5
- d. 14 ✓
- e. 6

Your answer is correct.

The correct answer is: 14

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:17:14	Saved: 15	Answer saved	
3	16/11/24, 22:41:14	Saved: 14	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 44**

Incorrect

Mark 0.00 out of 1.00

(v1 (latest))

Determine the normal form of relation R(m, n, o, p, q) with functional dependencies f{m -> o, n -> p, mn -> q}:

Select one:

- 1. 2NF
- 2. BCNF
- 3. 3NF
- 4. 1NF ✗

The correct answer is: BCNF

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:17:32	Saved: BCNF	Answer saved	
3	16/11/24, 22:41:40	Saved: 1NF	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 45**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

Let G be a graph with n vertices and m edges. What is the tightest upper bound on the running time on Depth First Search of G?

Assume that the graph is represented using

adjacency matrix.

- a.  $O(m+n)$
- b.  $O(mn)$
- c.  $O(n^2)$  ✓
- d.  $O(\text{?})$

Your answer is correct.

The correct answer is:  $O(n^2)$

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:17:50	Saved: O[No]	Answer saved	
3	16/11/24, 22:42:05	Saved: O( $n^2$ )	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 46**

Incorrect

Mark 0.00 out of 1.00

[v2 \(latest\)](#)

What will be the output of the following code snippet?

```
#include <stdio.h>
int foo(int* a, int* b)
{
    int sum = *a + *b;
    *b = *a;
    return *a = sum - *b;
}
int main()
{
    int i = 0, j = 1, k = 2, l;
    l = i++ || foo(&j, &k);
    printf("%d %d %d %d", i, j, k, l);
    return 0;
}
```

- a. 1 2 1 2
- b. 1 2 1 1
- c. 1 2 2 1
- d. 1 1 2 1
- e. 1 2 2 2 X

Your answer is incorrect.

The correct answer is: 1 2 1 1

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:18:19	Saved: 1 2 2 1	Answer saved	
3	16/11/24, 22:42:53	Saved: 1 2 2 2	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Incorrect	0.00

**Question 47**

Correct

Mark 20.00 out of 20.00

(v2 (latest))

**Problem Statement:**

Write a function to check if a given number `n` is prime. If n is prime return "Prime", else "Not Prime"

**Sample TestCases:****Sample Input 1:**

3

**Sample Output 1:**

Prime

**Sample Input 2:**

4

**Sample Output 2:**

Not Prime

**Sample Input 3:**

10

**Sample Output 3:**

Not Prime

**Constraints:**

1

**For example:**

Test	Input	Result
Sample Test Case 1	3	Prime
Sample Test Case 2	4	Not Prime
Sample Test Case 3	10	Not Prime

**Answer:** (penalty regime: 10, 20, ... %)

Language cpp ▾

```

1 #include<iostream>
2 using namespace std;
3 bool Prime(int n){
4     for(int i=2;i<=n/2;i++){
5         if(n%i==0){
6             return false;
7         }
8     }
9     return true;
10 }
11
12 int main(){
13     int n;
14     cin>>n;
15     if(Prime(n)){
16         cout<<"Prime";
17     }
18 }
```

```

19 } cout<<"Not Prime";
20 }
21 }
```

[ ]

	Test	Input	Expected	Got	
✓	Sample Test Case 1	3	Prime	Prime	✓
✓	Sample Test Case 2	4	Not Prime	Not Prime	✓
✓	Sample Test Case 3	10	Not Prime	Not Prime	✓
✓	Hidden Test Case 1	288	Not Prime	Not Prime	✓
✓	Hidden Test Case 2	58545	Not Prime	Not Prime	✓
✓	Hidden Test Case 3	2502	Not Prime	Not Prime	✓
✓	Hidden Test Case 4	50721	Not Prime	Not Prime	✓
✓	Hidden Test Case 5	28077	Not Prime	Not Prime	✓
✓	Hidden Test Case 6	62603	Prime	Prime	✓
✓	Hidden Test Case 7	19451	Not Prime	Not Prime	✓
✓	Hidden Test Case 8	29918	Not Prime	Not Prime	✓
✓	Hidden Test Case 9	12088	Not Prime	Not Prime	✓
✓	Hidden Test Case 10	30217	Not Prime	Not Prime	✓
✓	Hidden Test Case 11	46605	Not Prime	Not Prime	✓
✓	Hidden Test Case 12	33291	Not Prime	Not Prime	✓
✓	Hidden Test Case 13	80975	Not Prime	Not Prime	✓
✓	Hidden Test Case 14	6956	Not Prime	Not Prime	✓

//

Passed all tests! ✓

Correct

Marks for this submission: 20.00/20.00.

## Response history

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not complete	
2	16/11/24, 22:49:33	Prechecked: #include<iostream> using namespace std; bool Prime(int n){ if(n<=1) { return false; } for(int i=2;i<=n;i++){ if(num%i==0){ return false; } } return true; } int main(){ int n; cin>>n; if(Prime(n)){ cout<<"Prime"; } else{ cout<<"Not Prime"; } }	Precheck results	
3	16/11/24, 22:49:44	Prechecked: #include<iostream> using namespace std; bool Prime(int n){ if(n<=1) { return false; } for(int i=2;i<=n;i++){ if(n%i==0){ return false; } } return true; } int main(){ int n; cin>>n; if(Prime(n)){ cout<<"Prime"; } else{ cout<<"Not Prime"; } }	Precheck results	

Step	Time	Action	State	Marks
4	16/11/24, 22:51:11	Prechecked: #include<iostream> using namespace std; bool Prime(int n){ for(int i=2;i<=n/2;i++){ if(n%i==0){ return false; } } return true; } int main(){ int n; cin>>n; if(Prime(n)){ cout<<"Prime"; } else{ cout<<"Not Prime"; } }	Precheck results	
5	16/11/24, 22:51:20	Submit: #include<iostream> using namespace std; bool Prime(int n){ for(int i=2;i<=n/2;i++){ if(n%i==0){ return false; } } return true; } int main(){ int n; cin>>n; if(Prime(n)){ cout<<"Prime"; } else{ cout<<"Not Prime"; } }	Correct	20.00
6	16/11/24, 23:09:31	<b>Attempt finished submitting: {\$a}</b>	Correct	20.00

**Question 48**

Correct

Mark 1.00 out of 1.00

**v1 (latest)**

Arrange the following cloud deployment models in descending order of scalability: 1=> Public cloud model 2=> Private cloud model 3=> Hybrid cloud model

Select one:

- 1. 1-3-2 ✓
- 2. 3-2-1
- 3. 2-3-1
- 4. 1-2-3

The correct answer is: 1-3-2

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:18:52	Saved: 3-2-1	Answer saved	
3	16/11/24, 22:43:21	Saved: 1-3-2	Answer saved	
4	16/11/24, 23:09:31	<b>Attempt finished</b>	Correct	1.00

**Question 49**

Correct

Mark 1.00 out of 1.00

**v1 (latest)**

Which of the following is the correct syntax to select all columns from a table named Customers?

Select one:

- 1. SELECT \* FROM Customers ✓
- 2. SELECT Customers
- 3. SELECT ALL FROM Customers
- 4. GET \* FROM Customers

The correct answer is: SELECT \* FROM Customers

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:19:35	Saved: SELECT Customers	Answer saved	
3	16/11/24, 22:43:36	Saved: SELECT * FROM Customers	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 50**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

In a hierarchical database, a hashing function is used to locate the:

Select one:

- 1. Collision
- 2. Root
- 3. Foreign Key
- 4. Records ✓

The correct answer is: Records

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:19:56	Saved: Records	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 51**

Correct

Mark 1.00 out of 1.00

(v1 (latest))

Which of the following cloud computing technologies helps to use applications as a service for other applications regardless of the type of vendor, product, or technology?

Select one:

- 1. Grid Computing
- 2. Virtualization
- 3. Service-Oriented Architecture (SOA) ✓
- 4. Utility Computing

The correct answer is: Service-Oriented Architecture (SOA)

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:20:13	Saved: Service-Oriented Architecture (SOA)	Answer saved	
3	16/11/24, 23:09:31	Attempt finished	Correct	1.00

**Question 52**

Incorrect

Mark 0.00 out of 1.00

(v1 (latest))

Which of the following statements is correct for LAN? 1=> It operates within a limited geographical area. 2=> It allows multi-access to high-bandwidth media. 3=> It connects physically adjacent devices.

Select one:

- 1. 1, 2 & 3
- 2. 1 & 2
- 3. 2 & 3 X
- 4. 1 & 3

The correct answer is: 1, 2 & 3

**Response history**

Step	Time	Action	State	Marks
<u>1</u>	16/11/24, 21:49:59	Started	Not yet answered	
<u>2</u>	16/11/24, 22:20:34	Saved: 1, 2 & 3	Answer saved	
<u>3</u>	16/11/24, 22:44:34	Saved: 2 & 3	Answer saved	
<b>4</b>	<b>16/11/24, 23:09:31</b>	<b>Attempt finished</b>	<b>Incorrect</b>	<b>0.00</b>

**Question 53**

Correct

Mark 1.00 out of 1.00

(v2 (latest))

Let P be a Quick Sort Program to sort numbers in ascending order using the first element as a pivot. Let  $t_1$  and  $t_2$  be the number of comparisons made by P for the inputs  $\{1, 2, 3, 4, 5\}$  and  $\{4, 1, 5, 3, 2\}$  respectively. Which one of the following holds?

- a.  $t_1 > t_2$  ✓
- b.  $t_1 = t_2$
- c.  $t_1 = 5$
- d.  $t_1 < t_2$

Your answer is correct.

The correct answer is:  $t_1 > t_2$

**Response history**

Step	Time	Action	State	Marks
1	16/11/24, 21:49:59	Started	Not yet answered	
2	16/11/24, 22:20:49	Saved: $t_1 = t_2$	Answer saved	
3	16/11/24, 22:46:11	Saved: $t_1 > t_2$	Answer saved	
4	16/11/24, 23:09:31	Attempt finished	Correct	1.00