2026 LTIMindtree Test -1

Test Summary

* No. of Sections: 3
* No. of Questions: 47
* Total Duration: 90 min

Section 1 - VERBAL

Section Summary

* No. of Questions: 20
* Duration: 20 min

Additional Instructions:

None

Q1.

**Choose the appropriate word to fill in the blank.**

You \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ have taken my advice and gone to the doctor. Your cold is not going to get better if you wait.

could

might

should

none of the mentioned options

Q2.

**Complete the following sentence by choosing the right option.**

The director was drummed **.......** of office for life when it was discovered that she had been involved in insider trading.

up

in

on

out

Q3.

**Read the statement and answer the question that follows.**

When India pointed out the McMahon line, the Chinese response was that it did not recognize lines drawn by colonial powers.

Which of the following is a conclusion which can be drawn from the above statement?

The line was drawn by a Britisher by name Mc Mohan.

Indians recognized the border drawn by colonial powers.

The Mc Mohan line is not to the advantage of these Chinese.

The Indians are not in good terms with the colonial powers.

Q4.

Choose the answer choice that contains words that best complete the sentence.

As the swollen rivers began to rise, the flood situation …… further and the marooned people were …… to safer places.

degenerated …… abandoned

improved …… removed

deteriorated …… evacuated

worsened …… vacated

Q5.

In the following sentence, a part of the sentence or the whole sentence is underlined. Beneath each sentence, four different ways of phrasing the underlined part are indicated. Choose the best alternative from among the four.

Even after giving it thoughtfully consideration, we are unfortunately not able to accept your application.

thoughtfully given it consideration

thoughtfully give it consderation

giving it thoughtful consideration

giving it thoughtfully consideration

Q6.

**In the question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.**

**Statement:** "You are hereby appointed as a programmer with a probation period of one year and your performance will be reviewed at the end of the period for confirmation." - A line in an appointment letter.

**Assumptions:**

I. The performance of an individual generally is not known at the time of appointment offer.

II. Generally an individual tries to prove his worth during the probation period.

Only assumption I is implicit

Only assumption II is implicit

Either I or II is implicit

Neither I nor II is implicit

Both I and II are implicit

Q7.

**In the sentence provided a part of the sentence is underlined. Beneath the sentence, four/five different ways of paraphrasing the underlined part are indicated. Choose the best alternative amongst the four/five.**

Critics charge that Indian Cricket Association lobbied for stadiums with fewer seats to reduce supply and increase ticket prices.

lobbied for stadiums with fewer seats to reduce supply and increase ticket prices.

lobbied for stadiums with less seats to reduce supply and increase ticket prices.

lobbied for stadiums that had been built with fewer seats to reduce supply and increase ticket prices.

lobbied for stadiums that had less seats to reduce supply and increase ticket prices.

lobbied for stadiums that had less seats as a means of reducing supply so they could increase ticket prices.

Q8.

Choose the word or words that best fit(s) the meaning of the each sentence.

Modern scientists zealously study that \_\_\_\_\_\_ known as a living cell, even though they realize that its complexity may cause certain definitive relationships to \_\_\_\_\_\_\_\_ description for years to come.

conundrum, defy

incongruity, entail

profundity, elude

enigma, promote

Q9.

**Pick out the best alternative for the underlined part in the given sentences**

The impostor eluded detection for so long because she conducted herself as though she were a licensed practitioner.

as though she were a licensed practitioner.

as though she was a licensed practitioner.

like she was a licensed practitioner.

like as if she was a licensed practitioner.

Q10.

Complete the following sentences with the right option

In the Middle Ages, the \_\_\_\_ of the great cathedrals did not enter into the architects' plans; almost invariably a cathedral was positioned haphazardly in \_\_\_\_ surroundings.

situation - incongruous

location - apt

ambience - salubrious

durability – convenient

Q11.

**Complete the following sentence by choosing the right option.**

My son is afraid **.......** the dark

from

on

of

by

Q12.

In the question, select the most preferable sentence with respect to grammar, meaning and usage.

As one travels from kulumanali to shimla, he finds the line most beautifully laid.

Travelling from kulumanali to shimla, one finds the line most beautifully laid.

While travelling from kulumanali to shimla, one would find the line most beautifully laid.

If one travels from kulumanali to shimla, he will find the line beautifully laid.

Q13.

**Complete the following sentence by choosing the right option.**

Please put the plates \_\_\_\_\_\_\_ the table.

over

for

to

on

Q14.

Pick out the best alternative for the underlined part of sentence.

The phenomena of public education is another example of the workings of democracy.

The phenomena of public education is another example of democracy.

The phenomenon of public education is yet another example of democracy at work.

The phenomenon of public education is another example of how the workings of democracy work.

The phenomena of public education is another working example of democracy.

Q15.

**Replace the underlined part of the sentence with a grammatically correct part**

While all states face similar industrial waste problems, the predominating industries and the regulatory environment of the states obviously determines the types and amounts of waste produced, as well as the cost of disposal.

all states face similar industrial waste problems, the predominant industries and the regulatory environment of each state obviously determine

each state faces a similar industrial waste problem, their predominant industries and regulatory environment obviously determine

all states face a similar industrial waste problem; their predominating industries and regulatory environment obviously determines

each state faces similar industrial waste problems, the predominant industries and the regulatory environment of each state obviously determines

Q16.

**In each question below is given a statement followed by two assumptions numbered I and II. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement.**

**Statement:** If it is easy to become an engineer, I don't want to be an engineer.

**Assumptions:**

An individual aspires to be professional.

One desires to achieve a thing that is hard-earned.

Only assumption I is implicit

Only assumption II is implicit

Either I or II is implicit

Neither I nor II is implicit

Both I and II are implicit

Q17.

Complete the following sentences with the right option

Companies that try to improve employees' performance by \_\_\_\_\_ rewards encourage negative kinds of behavior instead of \_\_\_\_\_ a genuine interest in doing the work well.

Giving, seeking

Bestowing, discouraging

Conferring, discrediting

Withholding, fostering

Q18.

**Fill in the blank by choosing the right alternative for the bold part of the sentence from the options.**

The book reflects the wide range of concerns and the multitude of ways **in which the United Nations touch the lives of people everywhere.**

in which the United Nations touches the lives of people everywhere.

which the United Nations touches the lives of people everywhere.

in which the United Nations touches all the lives of people in every place.

in which United Nations touches the lives of people everywhere.

No improvement required

Q19.

Fill in the blank with the appropriate word:

Sandra doesn't feel well so I told her to **.......** down for a little while.

lie

lied

lying

Q20.

**Complete the following by selecting the appropriate word from the given choices.**

The most valuable \_\_\_\_\_\_\_\_\_\_\_\_of the freedom struggle and 50 years of freedom is awakening among the common people.

curious

phenomenon

legacy

cleavage

Section 2 - Q&R

Section Summary

* No. of Questions: 15
* Duration: 20 min

Additional Instructions:

None

Q1.

In the question below are given some conclusions followed by five set of statements. You have to choose the correct set of statements that logically satisfies given conclusions. Assume the given statements to be true even if they seem to be at variance from commonly known facts.

**Conclusions:**

1. Some road is house is a possibility.

2. Some child is not house.

**Statements:**

I) All road is child. Some child is toy. All toy is ring. No toy is house.

II) All road is child. Some toy is road. All toy is ring. No child is house.

III) Some road is toy. All child is toy. No toy is ring. Some house is ring.

IV) All child is road. All road is toy. Some house is ring. No house is toy.

V) None is correct.

Only statement I

Only statement II

Only statement III

Only statement IV

Only statement V

Q2.

If the measures of one side and one diagonal of a rhombus are 13 cm and 24 cm respectively then its area in cm2 is:

72

84

80

120

Q3.

From a group of 13 scientists which contains 5 mathematicians and 8 physicists, it is required to appoint a committee of two. If the selection is made without knowing the identity of the scientists, what is the probability that one will be a mathematician and the other a physicist?

20/39

1/4

7/13

None of these

Q4.

An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?

360

180

90

60

Q5.

What is the rightmost non-zero digit in 15!?

8

10

15

14

Q6.

A sum of money lent at compound interest for 2 years at 20% per annum would fetch Rs.723 more if the interest was payable half yearly than if it was payable annually. The sum is

Rs. 20000

Rs. 15000

Rs. 30000

Rs. 45000

Q7.

In a certain code, SIKKIM is written as THLJJL. How is TRAINING written in that code?

SQBHOHOH

UQBJOHHO

UQBHOHOF

UQBJOHOH

Q8.

Six litres of milk were taken out from a vessel and is filled with water. This operation is performed two more times. The ratio of the quantity of milk now left in the vessel to water is 8:19. How much is the quantity of milk contained by the vessel originally?

18 L

16 L

14 L

12 L

Q9.

One side of a right triangle is 3/5 times the hypotenuse and the sum of that side and hypotenuse is 16cm. what is the circumradius of the triangle?

6 cm

4 cm

5 cm

7 cm

Q10.

 What is the value of log3(-9) ?

3

$\frac{1}{3}$

-3

Not defined

Q11.

Samir started from his Police Station on inspection duty. After travelling straight a distance of 4 km he turned left for the market and travelled straight for 600 m. He now turned left again and travelled straight another 200 m, and turned left and travelled straight 600 m. How far is Samir from the Police Station?

3.4 kms

3.8 kms

4.4 kms

4.8 kms

Q12.

Identify the figure that completes the pattern.



1

2

3

4

Q13.

In a 750 m race, the ratio of speeds of Arun to Darani is 1:3. Arun has a head start of 250 m. Who wins the race and by what distance?

Arun, 200 m.

Darani, 250 m.

Arun, 250 m.

Darani, 200 m.

Q14.

Pointing towards a person, Salman said to Shehnaz, “His mother is the only daughter of your father.” How is the woman related to that person?

Mother

Aunt

Wife

Sister

None of these

Q15.

In the question below, a question and two statements numbered I and II are given. You have to decide whether the data provided in the statements are sufficient to answer the question. Read both statements and give an answer.

**Do X, Y, and Z stand in a straight line?**

**Statement I:** F is 2 km towards the south of E. K is 5 km towards the west of F. X is 2 km towards the north of F. Y is 3 km towards the east of E and Z is 4 km towards the east of Y.

**Statement II:** X is 2 km towards the north of L. K is 4 km towards the west of L. S is 1 km towards the south of K. M is 2 km towards the west of S. Y is 3 km towards the north of M and Z is 2 km towards the north of W.

If the data in **statement I alone are sufficient** to answer the question, while the data in statement II alone are not sufficient in answer the question.

If the data in **statement II alone are sufficient** to answer the question, while the data in statement I alone are not sufficient to answer the question.

If the data in **either in statement I alone or in statement II alone are sufficient** to answer the question.

If the data in **both the statements I and II together are not sufficient** to answer the question.

Section 3 - TECHNICAL

Section Summary

* No. of Questions: 12
* Duration: 50 min

Additional Instructions:

None

Q1. What will be the output of the following program? (assuming the int size is 4 bytes)

A screenshot of a computer code

AI-generated content may be incorrect.

40

80

120

150

Q2.

What does the below statement represent?

**Note:** Select more than one option.

A number and a equal sign

AI-generated content may be incorrect.

'a' is a pointer of 'b' type

'a' contains the address of 'b'

'a' and 'b' can be of different data types

'b' is a normal variable

Q3.

Predict the output of the following code:

A screenshot of a computer code

AI-generated content may be incorrect.

Many hands make workn

Many handsn

Many hands make work

Many hands make n

Q4.

What will be the output of the following program?

A screenshot of a computer

AI-generated content may be incorrect.

4

2

8

None of the mentioned options

Q5.

What will be the output of the following code?

A screenshot of a computer program

AI-generated content may be incorrect.

10 20

20 10

10 10

Error

Q6.

What is the output of the following code?

A screenshot of a computer code

AI-generated content may be incorrect.

0 0 0 0 0

6 5 3 0 0

Run time error

6 5 3 junk junk

Q7.

Identify if the enumeration definition given below is correct.

A screenshot of a computer

AI-generated content may be incorrect.

Yes, this enum definition is correct and will compile cleanly without any warnings or errors

No, this enum definition is incorrect and will result in compile error(s)

No, this enum definition will result in runtime exception(s)

Yes, this enum definition is correct but will compile with warnings.

Q8.

What will be the output for the following code?

A screenshot of a computer

AI-generated content may be incorrect.

i is not present

i is 20

i is 15

i is 10

Q9.

What is the output of the following program?

A screenshot of a computer code

AI-generated content may be incorrect.

Value is 10

Value is 9

Compile Time Error

Value is 5

Q10.

**Problem Statement**

Meet Cameron, an enthusiastic coder with a penchant for unraveling the mysteries of strings. One fine day, his professor presents him with a captivating string-based challenge that requires his keen coding skills. The task at hand is to perform an extraordinary transformation on a given string – flipping it upside down – while keeping the positions of the symbols intact.

Imagine Cameron is handed the string "Hello!World". His goal is to manipulate this string in such a way that the characters appear upside down, all while maintaining their original positions within the string. This means that the characters that were initially at the beginning of the string would now be at the end, and vice versa.

Intrigued by the puzzle, Cameron considers how he can achieve this transformation while adhering to the linear time complexity constraint. With his nimble fingers and quick thinking, he devises an algorithm that elegantly inverts the string, producing the astonishing result "dlroW!olleH".

Cameron's professor is highly impressed by his efficient solution that operates in linear time. By cracking this challenge, Cameron not only showcases his string manipulation expertise but also his ability to think creatively and develop algorithms that solve real-world problems.

Input Format

The input consists of a string **N**.

Output Format

The output prints the reversed string without changing the index of the symbols.

**Refer to the sample input and output for formatting specifications.**

Sample Input

A&B

Sample Output

B&A

Sample Input

ab1c%Ld\*

Sample Output

dL1c%ba\*

Sample Input

Hello!World

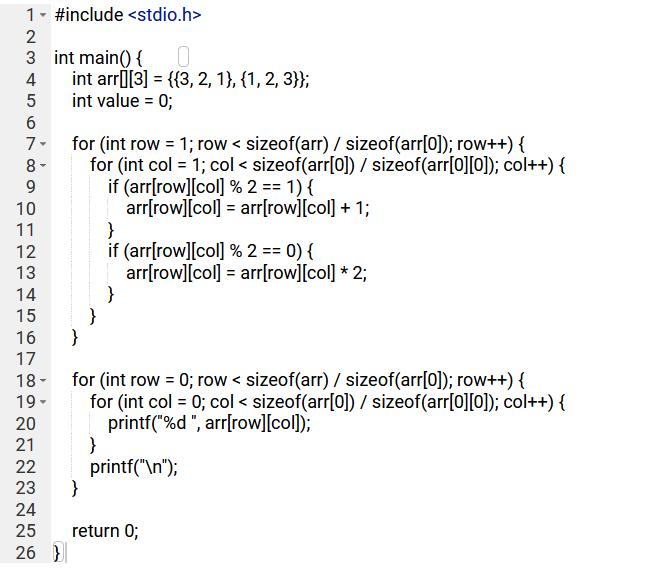
Sample Output

dlroW!olleH

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Q11.

What will be the output of the following code?



6 4 2

2 4 6

3 2 1

1 4 6

3 2 1

1 4 8

4 4 2

2 4 4

Q12.

**Merge Intervals**

Given an array of intervals where intervals[i] = [starti, endi], merge all overlapping intervals and return an array of the non-overlapping intervals that cover all the intervals in the input.

**Example 1:**

**Input**

4

1 3

2 6

8 10

15 18

**Output**

1 6

8 10

15 18

**Explanation**

Since intervals [1,3] and [2,6] overlap, merge them into [1,6].

**Input**

2

1 4

4 5

**Output**

1 5

**Explanation**

Intervals [1,4] and [4,5] are considered overlapping.

Input Format

The first line contains an integer n, the number of intervals.

Each of the following n lines contains two space-separated integers representing the start and end of an interval.

Output Format

The output consists of several lines, each line containing two space-separated integers representing the start and end of a merged interval.

Constraints

1 <= intervals.length <= 104

intervals[i].length = 2

0 <= starti <= endi <= 104

Sample Input

4

1 3

2 6

8 10

15 18

Sample Output

1 6

8 10

15 18

Sample Input

2

1 4

4 5

Sample Output

1 5

Time Limit: - ms Memory Limit: - kb Code Size: - kb

Answer Key & Solution

Section 1 - VERBAL

Q1

should

Solution

No Solution

Q2

out

Solution

As per the context of the sentence, the blank should be filled with a negative word.

drum up - to bring about by persistent effort

drum out - expel or dismiss someone from a place or institution.

Thus, drum out is the most suitable phrasal verb.

Answer - out

Q3

Indians recognized the border drawn by colonial powers.

Solution

Choice (The line was drawn by a Britisher by the name Mc Mohan.): The passage has no reference to the British. Hence, it is out of context.

Choice (Indians recognized the border drawn by colonial powers.): As the Indians are using the Mc Mahon line, it can be concluded that it accepts the border drawn by the colonial powers. Hence, this is a conclusion.

Choice (The Mc Mohan line is not to the advantage of these Chinese.): As the Chinese were not accepting the Mc Mahon line, it can be inferred that it is not to the advantage of the Chinese. Hence, this is an inference.

Choice (The Indians are not in good terms with the colonial powers.): This statement contradicts the Indian stance in the case of Mc Mahon line.

Q4

deteriorated …… evacuated

Solution

The sentence says that as the swollen rivers began to rise the flood situation deteriorated (worsened) and marooned people were evacuated (moved to safer places). It cannot be abandoned, or vacated. If the situation “improved”, people will not be ‘removed.’

Q5

giving it thoughtful consideration

Solution

The use of the adverb "thoughtfully" is incorrect here, as it is being used to modify the noun "consideration." Adjectives, not adverbs, are used to modify nouns. The correct phrase is, therefore "giving it thoughtful consideration," which uses the adjective "thoughtful" instead of the adverb "thoughtfully."

Q6

Both I and II are implicit

Solution

The performance of the individual has to be tested over a span of time as the statement mentions. So, I is implicit. The statement mentions that the individual's worth shall be reviewed (during probation period) before confirmation. So, II is also implicit.

Q7

lobbied for stadiums with fewer seats to reduce supply and increase ticket prices.

Solution

'Fewer' answers the question, "How many?" (fans, balls, hot dogs, seats) and 'less' answers the question, "How much?" (soda, dirt, salt). This eliminates answer choices B, D, and E. Answer choice C is unnecessarily wordy and implies that the stadiums had already been built before the lobbying began.

Q8

conundrum, defy

Solution

The living cell is an entity which is mysterious, so options 2 and 3 can be eliminated.

Defy is better suited to the sentence than promote.

So the answer is 1.

Q9

as though she were a licensed practitioner.

Solution

The sentence is correct because we change was to were in situations that are counter to fact or highly unlikely.

Q10

situation - incongruous

Solution

The semicolon indicates that the second part of the sentence expands on the first part. So, the second part tells us we are talking about the position, or situation of a cathedral. And since the first part tells us that architects did not pay attention to situation, the cathedral was positioned randomly in odd (incongruous) surroundings. (incongruous = not matching, odd; apt = suitable; ambience = atmosphere, environment)

Q11

of

Solution

No Solution

Q12

Travelling from kulumanali to shimla, one finds the line most beautifully laid.

Solution

Travelling from kulumanali to shimla, one finds the line most beautifully laid.

Q13

on

Solution

In general, on is used to indicate touching and being supported by the top surface of (something), or moving to a position that is supported by something

Q14

The phenomena of public education is another example of democracy.

Solution

Public education is a phenomenon which is singular, and not phenomena which is plural, so this eliminates options 1 and 4.

The sentence construction of 3 is wrong, so the answer is 2.

Q15

all states face similar industrial waste problems, the predominant industries and the regulatory environment of each state obviously determine

Solution

"all states face similar industrial waste problems, the predominant industries and the regulatory environment of each state obviously determine" is Correct This sentence makes the clear distinction between the problem all states share and the conditions each state faces; subject and verb agree.

"each state faces a similar industrial waste problem, their predominant industries and regulatory environment obviously determine"- Each state must be compared to all other states, not the states.

"all states face a similar industrial waste problem; their predominating industries and regulatory environment obviously determines"- Using a semicolon results in a sentence fragment; subject and verb do not agree

"each state faces similar industrial waste problems, the predominant industries and the regulatory environment of each state obviously determines"- Each state must be compared to all other states; subject and verb do not agree.

Q16

Only assumption II is implicit

Solution

Clearly, nothing is mentioned about the professional nature of the job. So, I is not implicit. The statement hints that one rejects a thing that is easy to achieve. So, II is implicit.

Q17

Withholding, fostering

Solution

The second part of the sentence has the keyword ‘instead’, which means it is contradictory to the first part. The first part of the sentence says that the company is encouraging negative kinds of behavior among the employees. It means the company is doing something to discourage the employees. That could be only withholding their rewards. Option (d) is the only option that has withholding as its first choice.

Q18

in which the United Nations touches the lives of people everywhere.

Solution

Option B is incorrect because the preposition ‘in’ is missing before “which”. This changes the meaning of the sentence. It indicates the UN touches the ways. Option B hence gets eliminated.

Option C is erroneous as well because “all” is not required. Plus, ‘everywhere’ is more appropriate than ‘every place’.

Option D is also incorrect because United Nations is a world famous organization and assumes the definite article ‘the’ before it.

Clearly, option A is most suitable choice among the given ones.

Q19

lie

Solution

No Solution

Q20

legacy

Solution

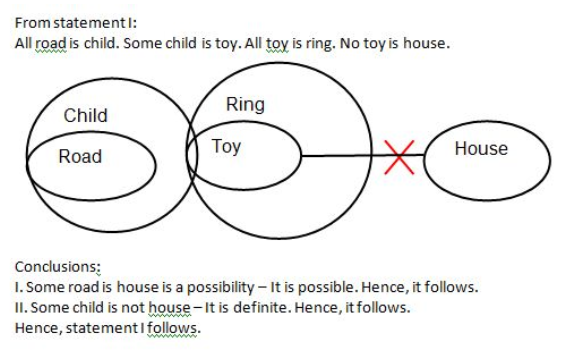
Legacy means anything material or immaterial handed down by a predecessor

Section 2 - Q&R

Q1

Only statement I

Solution



Q2

120

Solution

A diagram of a square with a square in the center

AI-generated content may be incorrect.

Area of rhombus = ½ ×product of diagonals

We know that, diagonals of a rhombus bisect each other at right angles.

Applying Pythagoras theorem:-

(d1/2)2+(d2/2)2=side2

Where d1 and d2 are diagonals.

Given, measures of one side one diagonal of a rhombus are 13 cm and 24 cm.

⇒122+(d2/2)2=132

⇒(d2/2)2=25

⇒ d2= 10 cm

Area of rhombus = ½ × 24 × 10 = 120 cm2

Q3

20/39

Solution

No. of ways to select 2 members from a group of 13 = 13C2

 No. of ways to select 1 member from a group of 5 = 5C1

No. of ways to select 1 member from a group of 8 = 8C1

The probability that one will be a mathematician and the other a physicist

= [(5C1 \* 8C1) / 13C2 ] = 20 / 39

Q4

180

Solution

Angle traced by the hour hand in 6 hours=(360/12)\*6

180 degree

Q5

8

Solution

A white paper with black numbers and symbols

AI-generated content may be incorrect.

Q6

Rs. 30000

Solution

723 more than the compound interest for 2 yrs at 20% half yearly than annually

P(1 + 20/200)4 - P - P(1 + 20/100)2 + P = 723

14641P/10000 - 14400P/10000 = 723

241P/10000 = 723

P = 30000

Q7

UQBHOHOF

Solution

Solution:

The letters at the odd position are moved one step forward while the letters at the even positions are moved one step back to get the corresponding letters of the code.

Q8

18 L

Solution

If x is the amount of milk present initially in the mixture, then we have

(1 - 6/x)3 = (8/27)

solving this, we have

x = 18 liters

Q9

5 cm

Solution

if AC =a, AB =h

Given a + h =16 and a=3/5 h.

So 3/5 h + h =16 or h=(5/8) × 16 =10

For right angled triangle, circumradius =Hypotenuse/2 =5 cm

Q10

Not defined

Solution

log3(−9)

is not defined within Real numbers.

For Real numbers the  log

function is only defined when its argument is non-negative

Q11

3.8 kms

Solution

A diagram of a car with numbers and arrows

AI-generated content may be incorrect.

Q12

1

Solution

A black and white square design

AI-generated content may be incorrect.

Q13

Darani, 250 m.

Solution

Total distance to be covered is 750 m.

Arun has a head start of 250 m. So, Distance to be covered by Arun and Darani = 500:750

Speeds are in the ratio of 1:3

So, the time taken will be 3:1

In 1 sec, if Darani covers 250 m, Arun takes 3 sec to cover the same distance.

So, to cover 750 m, Darani takes 3 sec.

But in that 3 sec, Arun would have covered 250 m out of the total 500 m to be covered. So, Darani wins the race by 250 m.

Q14

Mother

Solution

Only daughter of Shehnaz's father is Shehnaz's sister.

That person's mother is Shehnaz's sister (the woman)

Hence, the woman is the mother of that person

Q15

If the data in **statement I alone are sufficient** to answer the question, while the data in statement II alone are not sufficient in answer the question.

Solution

Solution:

From statement I, X, Y, Z stand in stand in a straight line

From statement II, Point Z cannot be connected to the figure formed in which points X and Y exists. So cannot be said about point Z that it lies straight to X and Y or not.

Section 3 - TECHNICAL

Q1

80

Solution

No Solution

Q2

'a' is a pointer of 'b' type

'a' contains the address of 'b'

Solution

No Solution

Q3

Many hands make n

Solution

No Solution

Q4

8

Solution

No Solution

Q5

20 10

Solution

No Solution

Q6

6 5 3 0 0

Solution

No Solution

Q7

No, this enum definition is incorrect and will result in compile error(s)

Solution

No Solution

Q8

i is 20

Solution

The variable i is assigned the value 20.

The code enters the first if statement with the condition (i == 10). Since i is not equal to 10, this condition is False.

The code then enters the first elif statement with the condition (i == 15). Since i is not equal to 15, this condition is also False.

Finally, the code enters the second elif statement with the condition (i == 20). Here, i is indeed equal to 20, so this condition is True.

The code executes the code-block inside the second elif branch, printing the message: "i is 20".

The other elif and else branches are not executed because the second elif branch was true.

In summary, the output is "i is 20" because the value of i (20) satisfies the condition in the second elif statement.

Q9

Value is 10

Solution

No Solution

Q10

#include<iostream>

using namespace std;

bool isSpecial(char s)

{

if(s-'a' >= 0 && s-'z' <= 0)

return false;

else if(s-'A' >=0 && s-'Z' <= 0)

return false;

return true;

}

int main()

{

string s;

cin>>s;

int i =0;

int j = s.length()-1;

while(i < j)

{

if(!isSpecial(s[i]) && !isSpecial(s[j]))

{

char t = s[i];

s[i] = s[j];

s[j] = t;

i++;

j--;

}

else if(isSpecial(s[i]))

i++;

else

j--;

}

cout<<s<<endl;

return 0;

}

Q11

Solution

import java.util.Scanner;

import java.util.Arrays;

import java.util.LinkedList;

class Main

{

public static int[][] merge(int[][] intervals)

{

Arrays.sort(intervals, (a, b) -> Integer.compare(a[0], b[0]));

LinkedList<int[]> merged = new LinkedList<>();

for (int[] interval : intervals) {

// if the list of merged intervals is empty or if the current

// interval does not overlap with the previous, simply append it.

if (merged.isEmpty() || merged.getLast()[1] < interval[0]) {

merged.add(interval);

}

// otherwise, there is overlap, so we merge the current and previous

// intervals.

else {

merged.getLast()[1] = Math.max(merged.getLast()[1], interval[1]);

}

}

return merged.toArray(new int[merged.size()][]);

}

// Driver Code

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in) ;

int n = sc.nextInt() ;

int arr[][] = new int[n][2] ;

for(int i = 0 ; i < n ; i++) {

for(int j = 0 ; j < 2 ; j++)

arr[i][j] = sc.nextInt() ;

}

int res [][] = merge(arr) ;

for(int i = 0 ; i < res.length ; i++)

{

for(int j = 0 ; j < 2 ; j++)

System.out.print(res[i][j] + " ") ;

System.out.println() ;

}

}

}

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