2026 LTIMindtree Test -3

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.

In the question below, a statement is given followed by two courses of action numbered I and II. Assume everything in the statement to be true and on the basis of the information given in the statement, decide which of the suggested courses of action logically follow(s) for pursuing.

There is an unprecedented increase in the migration of villagers to urban areas as repeated crop failure has put them into a precarious financial situation.

Courses of Action:

I. The villagers should be provided with an alternate source of income in their villages which will make them stay put.

II. The migrated villagers should be provided with jobs in the urban areas to help them survive.

Only I follows

Only II follows

Neither I nor II follows

Both I and II follow

Q2.

**Fill in the blank with the appropriate preposition.**

The room is more expensive because it has a spectacular view \_\_\_\_\_\_\_\_\_ the beach.

for

from

of

to

Q3.

Choose the appropriate option to complete the sentences.

You and \_\_\_\_\_ brother need to take time to prepare \_\_\_\_\_\_ for the long journey which will start next month.

his / yourself

yours / ourselves

their / you

your / yourselves

her / by themselves

Q4.

Identify the one that is opposite in meaning (antonym) to the question word and mark.

deface

disfigure

facelift

bungle

inter

Q5.

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

Jack didn’t \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to explain the situation. Everyone know what was happening.

need

could

would

none of these

Q6.

Identify the synonyms of the capitalized words

TREACHERY

artifact

novelty

betrayal

charm

Q7.

**Choose an option, which can be substituted for a given sentence or phrase.**

A person who loves mankind and works for their well-being

Trustee

Philanthropist

Devotee

Disciple

Q8.

**Complete the sentence with the appropriate phrasal verb:**

I could easily \_\_\_\_\_\_that the inspection team was displeased with the security arrangements made at the airport.

make off

make away

make out

make over

Q9.

**The question consists of five statements labelled A, B, C, D, and E which when logically ordered form a coherent passage. Choose the option that represents the most logical order.**

A) People started fearing famine.

B) Monsoon turned out to be unusually abundant and the danger was averted.

C) The monsoon failed and water tanks became almost empty.

D) So, no grain could be sown by the farmers in their fields.

E) Farmers looked anxiously for the next monsoon.

CADBE

CDAEB

AEDCB

DABCE

Q10.

In the following question, a sentence has been given in Direct/Indirect speech. Out of the four alternatives suggested, select the one that best expresses the same sentence in Indirect/Direct speech.

He said to me, “You didn't help me in my financial crisis”.

He told me that I did not helped him in his financial crisis.

He told me that I had not helped him in his financial crisis.

He told me that I have not helped him in his financial crisis.

He told me that I had not been helped him in his financial crisis.

Q11.

Choose the one that conveys the meaning of the sentence correctly.

It is too hard an essay for me to far attempt.

Too far it is an essay hard for me to attempt.

It is far too hard an essay for me to attempt.

It is too far hard an essay to attempt for me.

Q12.

Change the voice in the given sentence.

**You will not have eaten bread.**

Bread was not eaten by you

Bread would not have eaten.

Bread will not have been eaten by you

Bread would have not eaten by you.

Q13.

Fill in the blank with a suitable article from the options given.

This is not \_\_\_\_ book I asked you for.

a

an

the

no article required

Q14.

Change the voice for the given sentence.

He had kept up his diet program for a month.

His diet program had been kept up for a month.

His diet program was kept up for a month.

His diet program had been kept for a month.

The doctor had kept up his diet program for a month.

Q15.

In the following question, statements 1 and 6 are respectively the first and the last sentences of a paragraph and statements A, B, C and D come in between them. Rearrange A, B, C and D in such a way that they make a coherent paragraph together with statements 1 and 6. Select the correct order from the given choices and mark its number as your answer.

1. Very popular with the younger crowd of the twin cities are bowling alleys.

A. They are not allowed to use the bowling alley.

B. But tough luck for those less than 12 years.

C. Their plush interiors, music and cafeteria facilities make them the ideal places for youngsters to take their friends out for a treat.

D. There are already four of them in town with another ready to join the club.

6. The older kids who use them swear they have the best time in the world.

CBAD

ABCD

DCBA

BADC

Q16.

Fill in the blank:

Samantha **.......** her promise so her sister doesn't trust her as much anymore.

break

broken

broke

Q17.

Choose the right answer on which of the following best expresses given IDIOM :

At one's fingertips

To take revenge

Matter of shame

Complete knowledge

None of above

Q18.

Substitute the given sentences with one word.

Hater of learning and knowledge

Misologist

Bibliophile

Misogynist

Misanthropist

Q19.

Read each sentence to find out whether there is any error in it. The error, if any, will be in one part of the sentence. The number of that part is the answer. Mark "No error" if the sentence is correct.

(1) Injustice and / (2) discrimination can / (3) never be tolerated / (4) by no one.

1

2

3

4

No error

Q20.

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.

Federal incentives now encourage investing capital in commercial office buildings despite vacancy rates in existing structures that are exceptionally high and no demand for new construction.

capital investment in commercial office buildings, even though vacancy rates in existing structures are exceptionally high and there is

capital to be invested in commercial office buildings even though there are exceptionally high vacancy rates high in existing structures with

investing capital in commercial office buildings even though the vacancy rates are exceptionally high in existing structures with

capital investment in commercial office buildings despite vacancy rates in existing structures that are exceptionally high, and although there is

Section 2 - Q&R

Section Summary

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

Additional Instructions:

None

Q1.

A 270 metres long train running at the speed of 120 kmph crosses another train running in the opposite direction at the speed of 80 kmph in 9 seconds. What is the length of the other train?

200 m

220 m

240 m

230 m

Q2.

A man pointing to a photograph says, “The lady in the photograph is my nephew’s maternal grandmother”. How is the lady in the photograph related to the man’s sister who has no other sister?

Mother

Sister

Sister-in-law

Mother-in-law

Q3.

The expression px3 – x2 + qx + 6 is divisible by x + 2 and has a remainder 30 when divided by x – 3. The value of p and q is

p = –2, q = 7

p = 7, q = 2

p = 2, q = 7

p = 2, q = –7

Q4.

Which digit will appear on the face opposite to the face with number 1 ?

A couple of cubes with numbers

AI-generated content may be incorrect.

6

3

4

5

Q5.

A girl buys 2 pigeons for ₹182. She sells one at a loss of 5% and another at a profit of 8%. But she neither gains nor loses on the whole. Find the price of a pigeon which has sold at a profit.

Rs. 112

Rs. 70

Rs. 85

cant be determined

Q6.

Find the wrong term in the given number series.

10, 17, 26, 37, 50, 65, 81

50

81

17

37

Q7.

The area of a parallelogram ABCD is A sq cm. If the distance between AB and DC is d1 cm and the distance between BC and AD is d2 cm, then the perimeter of the parallelogram is

A white background with red lines

AI-generated content may be incorrect.

Q8.

Find the area of parallelogram with adjacent sides 6 cm and 8 cm and diagonal 10 cm.

48 sq.cm

36 sq.cm

54 sq.cm

72 sq.cm

Q9.

The value of (1/log360 + 1/log460 + 1/log560) is\_\_\_\_\_\_\_.

5

3

1

4

Q10.

A cube is 4 cm. It is painted red, green, and blue on pairs of opposite sides. It is then cut into a smaller cube of 1 cm. How many of the smaller cubes will have only two faces painted?

32

56

24

8

Q11.

Anil and Raju can work together to finish a work in 10 days. They together work on it for 2 days and then Raju leaves. The rest of the work was done by Anil alone in 30 days. In how many days can Raju do the work alone?

13011

days

14011

days

15011

days

15 days

Q12.

At what time between 5.30 and 6 will the hands of a clock be at right angles?

(43 + 5/11) min past 5

(43 + 7/11) min past 5

5

7

Q13.

In the following question, the first and the last blocks mark the beginning and the end of a series respectively. The numbered blocks are a part of the series. However, one of these numbered blocks violates the pattern. Find the odd block and mark your answer from 1-5 accordingly.

A group of circles with arrows and a number

AI-generated content may be incorrect.

1

2

3

4

Q14.

From a book containing 100 pages, one page is selected randomly. What is the probability that the sum of the digits of the page number of the selected page is 11?

11/100

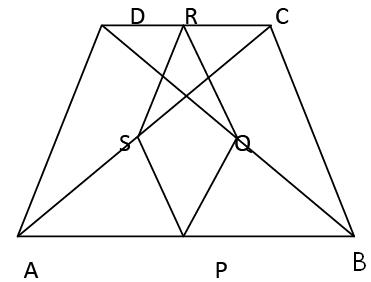
11/50

1/25

2/25

Q15.

ABCD is trapezium in which AB||DC and AD = BC. IF P,Q,R,S be respectively the mid-points of BA, BD and CD, CA. The PQRS is



Rhombus

rectangle

parallelogram

square

Section 3 - TECHNICAL

Section Summary

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

Additional Instructions:

None

Q1.

(Style and formatting will be shown only in question preview while using bulk upload. If any modification in the editor it will be affected.)

What will be the output of the following program?

A screenshot of a computer code

AI-generated content may be incorrect.

ABCDEFGHIJ

AAAAAAAAAA

JJJJJJJJ

None of the mentioned options

Q2.

Which of these exceptions handles the divide-by-zero error?

ArithmeticException

MathException

IllegalAccessException

IllegarException

Q3.

What will be the output of the following pseudocode?

A white paper with black text

AI-generated content may be incorrect.

Note: ^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is , the corresponding result bit is set to 1. Otherwise , the corresponding result bit is set to 0.

183

172

160

166

Q4.

What will be the output for the below pseudocode?

A math equations on a white background

AI-generated content may be incorrect.

**Note:**

**& bitwise AND** - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand; if both bits are 1, the corresponding result bit is set to 1. Otherwise, the corresponding result bit is set to 0

30

20

15

22

Q5.

Predict the output of the following code.

A screenshot of a computer code

AI-generated content may be incorrect.

9

10

11

12

Q6.

What will be the output of the following pseudocode?

A screenshot of a math problem

AI-generated content may be incorrect.

[ Note- & bitwise AND - The bitwise AND operator ( & ) compares each bit of the first operand to the corresponding bit

of the second operand if both bits are 1 the corresponding result bit is set to 1. otherwise, the corresponding result bit is set to 0

&& : Logical AND - The logical AND operator (&& ) returns the boolean value True (or 1) if either or both operands is True and returns False( or 0)]

3

6

15

4

Q7.

What will be the output of the following pseudocode?

A screenshot of a math problem

AI-generated content may be incorrect.

Note: **& bitwise AND** - The bitwise AND operator (&) compares each bit of the first operand to the corresponding bit of the second operand. If both bits are 1, the corresponding result bit is set to 1. otherwise, the corresponding result bit is set to 0

31

40

35

50

Q8.

**Problem Statement**

Given a number, find its corresponding Roman numeral.

**Example 1**

**Input:**

9

**Output:**

IX

**Example 2**

**Input:**

40

**Output:**

XL

Following is the list of Roman symbols that include subtractive cases.

A table with numbers and letters

AI-generated content may be incorrect.

Input Format

The input is an integer value **N,** that is to be converted to Roman Numeral.

Output Format

The output prints "Roman Numeral of Integer is: " followed by the Roman numeral of the given integer value.

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

Constraints

1 ≤ N ≤ 1000

Sample Input

9

Sample Output

Roman Numeral of Integer is: IX

Sample Input

40

Sample Output

Roman Numeral of Integer is: XL

Sample Input

190

Sample Output

Roman Numeral of Integer is: CXC

Sample Input

1000

Sample Output

Roman Numeral of Integer is: M

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

Q9.

**Problem Statement**

Given two sorted arrays nums1 and nums2 of size m and n respectively, return the median of the combined sorted array.

**Example**

**Input**

2

1 2

2

3 4

**Output**

2.5

**Explanation**

Merged array = [1,2,3,4] and median is (2 + 3) / 2 = 2.5

Input Format

The first line contains an integer **m**, representing the size of the first sorted array nums1.

The second line contains **m** integers separated by a space, representing the elements of the first sorted array nums1 in non-descending order.

The third line contains an integer **n**, representing the size of the second sorted array nums2.

The fourth line contains **n** integers separated by a space, representing the elements of the second sorted array nums2 in non-descending order.

Output Format

The output contains a double value, representing the median of the two sorted arrays.

If the combined length of the two arrays is even, then the median is the average of the two middle elements.

Otherwise, it is the middle element. The output should be accurate up to one decimal place.

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

Constraints

2 ≤ m ≤ 10

2 ≤ n ≤ 10

-102 ≤ nums1[i], nums2[i] ≤ 102

Sample Input Sample Output

2

1 2

2

3 4

2.5

Sample Input

3

-3 1 5

4

-6 5 7 10

Sample Output

5.0

Sample Input

3

20 30 40

3

60 70 80

Sample Output

50.0

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

Q10.

What will be the output of the following pseudocode?

Note:^ is the bitwise exclusive OR operator that compares each bit of its first operand to the corresponding bit of its second operand. If one bit is 0 and the other bit is 1 , the corresponding result bit is set to 1. Otherwise , the corresponding result bit is set to 0.

21

11

25

39

Q11.

What will be the output of the following pseudocode for the input pqr?

Note: Here, NULL typically means the end of the string.

rrqrrqp

ppqqrr

rqppqr

None of the mentioned options.

Q12.

What will be the output of the following pseudocode?

[Note:- MOD finds the remainder after the division of one number by another. For example, the expression "5 MOD 2" would evaluate to 1 because 5 divided by 2 leaves a quotient of 2 and remainder of 1.]

54

64

44

34

Answer Key & Solution

Section 1 - VERBAL

Q1

Only I follows

Solution

Clearly, increased migration would add to the burden on city's infrastructure. So, attempts should be made to make the villagers feel comfortable in the villages itself. So, only course I follows.

Q2

of

Solution

The meaning of the given sentence "a window that offers a nice image for guests"

The noun **view should be used in as *view (of ) something / someplace***

Hence the appropriate preposition is **of**

Usage of From : indicating the point at which an observer is placed.

The observer is watching the beach from the room and not vise-versa Hence it is incorrect.

Q3

your / yourselves

Solution

The pronoun here should denote the brother belonging to him , thus the appropriate pronoun would be "your"

Q4

facelift

Solution

'Deface' is to spoil the appearance of something. 'Bungle' means ruin. Hence, out of the given options 'facelift' is the antonym of 'deface'.

Q5

need

Solution

No Solution

Q6

betrayal

Solution

Treachery means betrayal of trust.

Q7

Philanthropist

Solution

Trustee - an individual person or member of a board given control or powers of administration

**Philanthropist - a person who seeks to promote the welfare of others**

Devotee - a person who is very interested in and enthusiastic about someone or something

Disciple - a personal follower

Q8

make out

Solution

make out-easily understand

Q9

CDAEB

Solution

The paragraph clearly identifies 3 ways:

The Para starts with a failing monsoon and because of this tanks became empty.

This fear led to no sowing of the grains by the farmers.

This led to fear of famine

After this farmers again became anxious for the next monsoon.

After this speculation, something opposite happened the monsoon fared well and danger was averted. The correct sequence is CDAEB

Q10

He told me that I had not helped him in his financial crisis.

Solution

Here the reporting verb(said) is in Past tense.

The Simple Past tense(didn't help) in the reported speech will be changed to Past Perfect tense(had not helped) in Indirect form.

Also, pronoun ‘you’ will be replaced by ‘I’, ‘me’ by ‘him’ and ‘my’ by ‘his’ in the indirect form.

Therefore, the correct indirect form is He told me that I had not helped him in his financial crisis.

Q11

It is far too hard an essay for me to attempt.

Solution

It is far too hard an essay for me to attempt is correct because far should come before 'too'

Q12

Bread will not have been eaten by you

Solution

The given sentence is in the future perfect tense.

The Passive verb form: will/shall + have been + past participle form of the verb.

The appropriate choice would be "Bread will not have been eaten by you"

Q13

the

Solution

The sentence indicates that the speaker is very specific about a particular he asked for. So, the definite article 'the' has to used.

Q14

His diet program had been kept up for a month.

Solution

"had" become "had been" when changed to passive voice. keep up -move or progress at the same rate as someone or something else."He had kept up his diet program for a month." is the right answer

Q15

DCBA

Solution

Statement 'D' gives proof of the popularity of the bowling alleys. Statement 'C' explains why they are popular. And 'B' followed by 'A' completes the series of statements leading to sentence '6'. DCBA is the correct option.

Q16

broke

Solution

No Solution

Q17

Complete knowledge

Solution

All formula's of quantitative aptitude are at his fingertips.

Q18

Misologist

Solution

Misologist is a person who hates or distrusts reasoning, knowledge.

Q19

4

Solution

The error is in the part 4 of the sentence.

Generally, We don’t use nobody, no one, nothing, nowhere after no, not, never or other words which have a negative meaning (hardly, seldom). We use anyone, anybody, anything, anywhere.

Hence in the given sentence, instead of "no one" we use "anyone".

Q20

capital investment in commercial office buildings, even though vacancy rates in existing structures are exceptionally high and there is

Solution

Proper terminology used is capital investment and has been used only in options (capital investment in commercial office buildings, even though vacancy rates in existing structures are exceptionally high and there is) and (capital investment in commercial office buildings despite vacancy rates in existing structures that are exceptionally high, and although there is).

Hence options (capital to be invested in commercial office buildings even though there are exceptionally high vacancy rates high in existing structures with) and (investing capital in commercial office buildings even though the vacancy rates are exceptionally high in existing structures with) get rejected outright. Despite vacancy rates…. exceptionally high as in option (capital investment in commercial office buildings despite vacancy rates in existing structures that are exceptionally high, and although there is) implies that the structures are exceptionally high whereas the original statement implied the rates as being high.

Hence option (capital investment in commercial office buildings despite vacancy rates in existing structures that are exceptionally high, and although there is) is also rejected and only option (capital investment in commercial office buildings, even though vacancy rates in existing structures are exceptionally high and there is) is the correct option.

Section 2 - Q&R

Q1

230 m

Solution

 Relative speed = (120 + 80) km/hr

 [200 x 5/18] m/sec = [500/9] m/sec.

Let the length of the other tain be x metres.

 Then, (x + 270) / 9 = 500/9

⇔ x + 270 = 500

⇔ x = 230 m

Q2

Mother

Solution

Since the man is referring to his nephew, the nephew’s parent has to be a sibling to the man. Now the last part says that the man’s sister has no other sister and hence the brother-sister relationship is established between the man and his nephew’s mother. Now the lady in the picture is the grandmother of the nephew and hence she is the mother of the man’s sister.

Q3

p = 2, q = –7

Solution

Let f(x) = px3 - x2 +qx + 6.

Since it is divisible by x+2,

we have f(-2) = -8p -4 -2q+6=0

=> 4p+q-1=0…… (i)

Similarly, since it is divisible by x-3, we have

f(3) = 27p-9+3q+6=30

f(3) = 9p+q-11=0…….(ii)

Solving, we get p=2, q=-7.

Q4

6

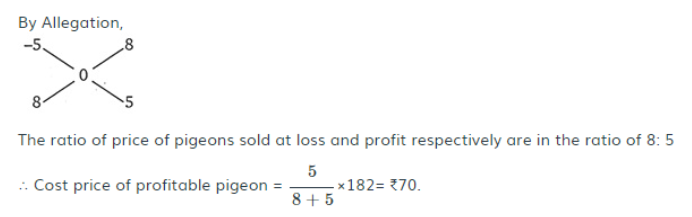
Solution

When we fit Figure 1 in Figure 2, then we able to find 6 is opposite of 1.

Q5

Rs. 70

Solution



Q6

81

Solution

10 + 7 = 17

17 + 9 = 26

26 + 11 = 37

37 + 13 = 50

50 + 15 = 65

65 + 17 = 82

Hence, in place of 81, it should be 82.

Q7

A math equations on a white background

AI-generated content may be incorrect.

Solution

AB . d1 = A and AD . d2 = A

AB=A/d1 and AD=A/d2

The perimeter of the parallelogram = 2 (AB + AD) =2(A/d1 + A/d2)

Ans(1)

Q8

48 sq.cm

Solution

As the sides 6 cm, 8 cm and the diagonal 10 cm form a right angled triangle, the parallelogram will become a rectangle.

Hence the area is 8 x 6 = 48 sq.cm.

Q9

1

Solution

Log 60 3 + log 60 4 + log 60 5

= log 60 (3\*4\*5)

= log 60 60 = 1

Q10

24

Solution

when we divide we get 4x4x4 little cubes, so it’s 64 cubes.

The corner cubes all of them have 3 faces painted, so that’s 8 cubes.

64–8=56

The middle cubes all have 1 side only painted, and we have 4 of these for each cube face, so thats 4x6= 24

56–24=32

We have to remove the inner cubes that have no ink at all, and thats 8 cubes

32–8=24

These 24 left, all of them have 2 sides with paint!

Q11

150/11

days

Solution

(Raju + Anil)'s one day's work = 1/10.

Their work for 2 days = 2 × 1/10 = 1/5.

Now Raju leaves. => Remaining work = 1 – 1/5 = 4/5. => 4/5th of the work was done by Anil alone in 30 days,

 Hence the whole work is done by Anil in 30 × 5/4 = 150/4 = 75/2 days.

Hence in 1 day, Anil can do 1/(75/2) = 2/75th of the work.

=> Raju's 1 day's work = (Raju + Anil)'s one day's work – Anil's one day's work = 1/10 – 2/75 = 11/150.

Raju can do the complete work in 150/11 days.

Q12

(43 + 7/11) min past 5

Solution

At 5 o'clock, the hands are 25 min. spaces apart.

To be at right angles and that too between 5.30 and 6, the minute hand has to gain (25 + 15) = 40 min. spaces.

55 min. spaces are gained in 60 min

40 min. spaces are gained in 60/55×40 min

(43 + 7/11) min past 5

Q13

4

Solution

The arrow rotates clockwise; the vertical and horizontal lines are added alternately. The smaller circle moves from corner to corner in an anti­clockwise direction. In figure (4), the smaller circle should be in the top left corner.

Ans.(4)

Q14

2/25

Solution

Favourable ways (29, 92, 38, 83, 47, 74, 56, 65)

Hence required 8/100

2/25

Q15

Rhombus

Solution

In BDC, Q and R are the mid-points of BD ad CD respectively.

QR || BC and QR = 1/2 BC.

similarly, PS ||BC and PS =1/2 BC

PS|| QR and PS = QR [each equal to `1/2 BC].

 Similarly PQ || SR and PQ =SR [ each equal to 1/2 AD]

PS =QR =PQ [ AD =BC]

Hence, PQRS is a rhombus

Section 3 - TECHNICAL

Q1

ABCDEFGHIJ

Q2

ArithmeticException

Solution

No Solution

Q3

166

Solution

Inside first for loop:

When r=3,p and q updated as15,28

When r=4,p and q updated as27,48

When r=5,p and q updated as 39, 68

When r=6,p and q updated as 51, 88

When r=7,p and q updated as 63,108 and loop terminates.

Inside second for loop:

When r=2,q updated to 103

When r=3,q updated to 108

When r=4,q updated to 103 and loop terminates.

Finally 63+103 = 166 gets printed.

Q4

20

Solution

b value set to 4 (2&2 => 2+2 = 4)

a value set to 8 (5&11 => 1+7 =8)

Output: 8+4+8 = 20

Q5

10

Solution

In the program, We are concatenating the str1 and str2 and printing it’s total length. So the length is 10.

Q6

4

Solution

Initially a=1, b= 3, c= 2

If block condition gets failed,so 'b' value is set to 1. (b=3&1 => b=1)

As a result, 1+1+2=4

Q7

31

Solution

In the first, if block 'a' value is

10=>1010

c => 1100

10&12 => 1000 (a=8)

In the second, if block 'a & c' value is

a=8+6+12 =26

c= 26 & 5 => 0

As a result 26+5+0=>**31**

Q8

def integerToRoman(num):

roman\_numerals = [

(1000, "M"), (900, "CM"), (500, "D"), (400, "CD"),

(100, "C"), (90, "XC"), (50, "L"), (40, "XL"),

(10, "X"), (9, "IX"), (5, "V"), (4, "IV"),

(1, "I")

]

result = ""

for value, symbol in roman\_numerals:

while num >= value:

result += symbol

num -= value

return result

num = int(input())

print("Roman Numeral of Integer is:", integerToRoman(num))

Q9

import java.util.Scanner ;

class Main{

static double findMedianOfSortedArrays(int nums1[], int m, int nums2[], int n) {

int N1 = m;

int N2 = n;

if (N1 < N2) return findMedianOfSortedArrays(nums2, n, nums1, m); // Make sure A2 is the shorter one.

int lo = 0, hi = N2 \* 2;

while (lo <= hi) {

int mid2 = (lo + hi) / 2; // Try Cut 2

int mid1 = N1 + N2 - mid2; // Calculate Cut 1 accordingly

double L1 = (mid1 == 0) ? Integer.MIN\_VALUE : nums1[(mid1-1)/2]; // Get L1, R1, L2, R2 respectively

double L2 = (mid2 == 0) ? Integer.MIN\_VALUE : nums2[(mid2-1)/2];

double R1 = (mid1 == N1 \* 2) ? Integer.MAX\_VALUE : nums1[(mid1)/2];

double R2 = (mid2 == N2 \* 2) ? Integer.MAX\_VALUE : nums2[(mid2)/2];

if (L1 > R2) lo = mid2 + 1; // A1's lower half is too big; need to move C1 left (C2 right)

else if (L2 > R1) hi = mid2 - 1; // A2's lower half too big; need to move C2 left.

else return (Math.max(L1,L2) + Math.min(R1, R2)) / 2; // Otherwise, that's the right cut.

}

return -1 ;

}

public static void main(String a[]){

Scanner sc = new Scanner(System.in);

int m = sc.nextInt() ;

int nums1[] = new int [m] ;

for(int i = 0 ; i < m ; i++)

nums1[i] = sc.nextInt() ;

int n = sc.nextInt() ;

int nums2[] = new int[n] ;

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

nums2[i] = sc.nextInt() ;

System.out.print(findMedianOfSortedArrays(nums1, m, nums2, n));

}

}

Q10

21

Solution

Initially p=9, q=7, r=6 after executing both for loop p=9,q=12 So 21 gets printed.

Q11

rrqrrqp

Solution

Initially a=pqr.

In fun(pqr) : len(pqr)>0 so fun(qr) called.

In fun(qr) : len(qr)>0 so fun(r) called.

In fun(r) : len(r)>0 so fun(empty string) called.

In fun(empty string) : len(qr)==0 so return nothin.

Then function call backtrack to fun(r) and again executes next line i.e. fun(r)

In fun(r) : len(r)>0 so fun(empty string) called.

In fun(empty string) : len(qr)==0 so return nothin.

Then function call backtrack to fun(r) and prints r. The same process repeated and prints rrqrrqp.

Q12

54

Solution

If block executes only when j=0 and 1.

When j=0, updated value of p=-6 ,q= -6

When j=1, updated value of p=-24 ,q= 27

When j=2, updated value of p=24 ,q= 31

When j=3, updated value of p=24 ,q= 33

When j=4, updated value of p=24 ,q= 44

When j=5, updated value of p=24 ,q= 54 and terminates the loop. So output is 54.

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