2026 CAPGEMINI TEST -4

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.

The sentences given below form a coherent paragraph when arranged logically. Choose the option which gives the correct sequence.

1. It is a mirror which reflects the stream of time as it flows everlastingly in one direction.
2. The reflection cannot, in the nature of things be true, as the mind of the historian is a limited imperfect and distorted medium.
3. History is a record of the past.
4. Of the millions of happenings at any moment, the historian can select, and record only a few and it is not possible for him to judge, whether they are the only significant ones.

3124

1234

4123

2134

Q2.

A sentence is broken into the following part; Make the option containing the correct sequence of these parts to get the meaningful sentence.

1. Once upon a time, on a far off island
2. Hat the rays of the sun were reflected in more than oriental splendour
3. On the shores of the black sea, there lived an Italian from whose

2,1,3

1,3,2

3,2,1

1,2,3

Q3.

From the given alternatives, choose the one which best expresses the given sentence in indirect speech.

I told her, "Your performance has not been up to mark".

I told her that performance is not up to mark

I told her that her performance had not been up to mark

I told her that her performance was not up to mark

i told her that their performance has not been up to mark

Q4.

Read the statement given below and decide whether it is a fact, an inference, a judgement, or an opinion:

Wednesday is the fourth day of the week.

inference

fact

judgement

opinion

Q5.

Which part of the sentence below has an error in it?

I was not/ present at the / accused scene of crime.

accused scene of crime

I was not

No error

Present at the

Q6.

Which part of the sentence below has an error in it?

The plants / are going to / love all / this raining !

are going to

this raining !

love all

The plants

Q7.

Choose the correct sequence of the given words/phrases so that it forms a logical sentence.

1. Anyone who seriously thought
2. In the elections to the senate
3. That he was a serious candidate
4. I have never come across

4231

4213

4123

4132

Q8.

The sentences given below form a coherent passage when arranged logically. Choose the option which gives the correct sequence:

A. Richard Branson, Chairman of virgin, recognized that aviation, like the music business, is a consumers industry and that if virgin wanted to dive in, this was the time.

B. Never one to take "no" for an answer, Branson's infectious enthusiasm ensured that staff was hired, an aircraft found and licenses obtained.

C. Company directors thought he was mad, particularly when he announced the new airline, now renamed Virgin Atlantic Airways(VAA) would be in just over three months.

D. It was not easy, especially when there were incidents like aircraft developing engine failure on the eve of the maiden flight. but finally, in June the first flight left for New York, packed with friends, celebrities, and the media.

ACBD

DBCA

DCBA

BDCA

Q9.

Which part of the sentence below has an error in it?

The held my hand / through troubled times / as if I was / an old friend.

through troubled times

an old friend

The held my hand

as if I was

Q10.

Mark the option that is the best replacement for the underlined part of the sentence so that the new sentence is grammatically correct.

Oscar don't like ice cream.

doesn't

couldn't

not

wouldn't

Q11.

A sentence is broken into the following parts. Mark the opinion containing the correct sequence of these parts to get the complete sentence;

1. my favourites explored two
2. among many fine biographies of jonas jonasson
3. of these topics with empathy

321

123

312

213

Q12.

The correct sequence of the word/phrases so that it forms a logical sentence.

1. hoping to find the box of gold
2. i dug up the garden
3. but to no avail

321

231

132

213

Q13.

Mark the option which best expresses the given sentence in indirect speech.

"I am going to the shopping centre"

she said that she is going to the shopping centre

she said that she does goes to the shopping centre

she said that she was going to the shopping centre

she said that she goes to the shopping centre

Q14.

Which part of the sentence given below has an error in it?

The worst part about this disaster / is that there is nobody / who know about first aid / on the whole ship.

The worst part about this disaster

on the whole ship

who know about first aid

is that there is nobody

Q15.

Determine if the statement given below is a fact, an inference, a judgement.

This is the world's most poisonous spider.

fact

judgement

inference

Q16.

A sentence is broken into the following parts. Mark the option containing the correct sequence of these parts to get the complete sentence.

1. while his apprentice went one step ahead and
2. merely condone war, he defended it
3. called it beneficial to the losing nation
4. the philosopher did not

4213

1234

2341

4321

Q17.

Mark the option which best expresses the sentence in passive voice.

The cops caught the most wanted fugitives of Beverly hills.

the most wanted fugitives of the beverly hills were caught by the cops.

the most wanted fugitive in beverly hills were caught by the cops

the most wanted fugitives of the beverly hills were caught from the cops

None of the mentioned options

Q18.

Which part of the sentence below has an error in it?

There is beautiful / camping site by the lake / in his neighbourhood

camping site by the lake

in his neighbourhood

There is beautiful

no error

Q19.

Choose the best replacement for the underlined part of the sentence:

The only grains they have is damaged by sea water

Have were

Had were

Have has

Had has

Q20.

**Read the statement given below and decide whether it is fact, an inference, or a judgement.**

The population density in Mumbai has skyrocketed.

judgement

fact

inference

Section 2 - Q&R

Section Summary

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

Additional Instructions:

None

Q1.

From his house, Sourav started his journey towards West. After traveling a certain distance he turned to his left and after travelling a certain distance he turned to his right to reach the office. In which direction is the office with respect to his house?

South-west

North-east

North-west

South-east

Q2.

Which one of the given interchange in signs would make the given equation correct?

10 – 2 +9 × 2 ÷ 4 = 19

– and ÷

- and +

÷ and ×

× and ÷

Q3.

The ratio of the length and the breadth of a rectangular plot is 6 : 5 respectively; if the breadth of the plot is 34 metre less than the length, what is the perimeter of the rectangular plot?

374

408

814

748

Q4.

The length of the Lucknow mail is 120 m and that of Punjab mail is 80 m. These two trains are running in the same direction with velocities of 40 km/h and 50 km/h respectively. The time taken by them to cross each other is

8 s

72 s

11.5 s

12.5 s

Q5.

Two numbers are selected at random from the integers 1 through 9. If the sum is even, find the probability that both numbers are odd.

5/8

3/8

3/10

None of these

Q6.

The probability that an MBA aspirant will join IIM is 2/5 and he will join XLRI is 1/3. Find the probability that he will join IIM or XLRI.

4/15

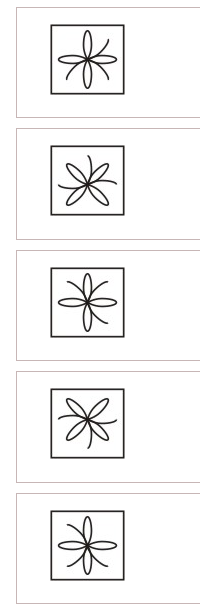
7/15

11/15

8/15

Q7.

Find out the figure which does not belong to the group i. e., which does not share the common features/ characteristics with the other four figures.



Q8.

12 men can complete a piece of work in 9 days. After 3 days, 6 men joined to replace 2 men. How many days would be required to complete the remaining work?

4 (2/5) days

3 (2/5) days

2 (1/2) days

4 (1/2) days

Q9.

The solution of the system of simultaneous linear equations 4x – 3y = 7 and 7x + 5y = 2 is

x = 1, y = 1

x = –1, y = 1

x = –1, y = –1

x = 1, y = –1

Q10.

The price of a bottle of red ink is 20% more than that of a bottle of black ink. If a bottle of red ink coast 72 paise, how much will a bottle of black ink coast?

Re.1

60 paise

80 paise

Rs.1.20

Q11.

If loga x, ax/2 and log bx are in GP, then x is equal to

loga (logb a)

loga (loge a) – loga (loge b)

–loga (loga b)

both 1 and 2

Q12.

Find the difference between SI and CI on Rs.2000 for 2 years at the rate of 10% p.a.

Rs.20

Rs.30

Rs.40

Rs.50

Q13.

Four circles of equal radius are lying in a plane, each touching the other two. If two circles touch each of four circles externally, then the ratio of radius of bigger circle to that of smaller circle is

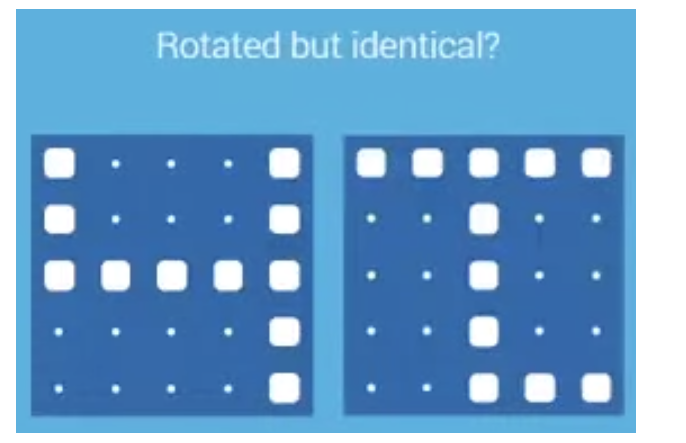
2 + √2

2 + 2√2

3 + 2√2

4√2

Q14.



Yes

No

Q15.

Move the black ball to the hole (marked red) in the given grid.

A grid with different colored squares and rectangles

AI-generated content may be incorrect.

Find the minimum required moves:

1. i) Purple block - 1 position leftward ii) Green block – 2 positions upward iii) Brown block – 1 position rightward and 1 position upward iv) Yellow block – 1 position downward and 1 position rightward
2. i) Purple block - 2 positions leftward ii) Green block – 2 positions upward iii) Brown block – 1 position leftward and 1 position upward iv) Yellow block – 1 position downward and 1 position rightward
3. i) Purple block - 2 positions leftward ii) Green block – 2 positions upward iii) Brown block – 1 position rightward and 1 position upward iv) Yellow block – 1 position downward and 1 position leftward
4. i) Purple block - 1 position upward ii) Yellow block – 1 position upward

1

2

3

4

Section 3 - TECHNICAL

Section Summary

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

Additional Instructions:

None

Q1.

Which of the following statements is correct about the program given below?

A screenshot of a computer program

AI-generated content may be incorrect.

The program reports an error as pointer to member function cannot be defined outside the definition of class

The program reports an error as pointer to static member function cannot be defined

The program reports an error as pointer to member function cannot be defined without object

The program reports linker error

Q2.

Let A be a square matrix of size 3x3. Consider the given program and predict the output for the same.

A screenshot of a computer

AI-generated content may be incorrect.

The matrix A itself

Transpose of matrix A

Adding 100 to the upper diagonal elements and subtracting 100 from diagonal elements of A

None of the mentioned options

Q3.

Consider a binary tree, T. The array representation of T is: A,B,C,D,E,F,G. Identify the correct statement.

T is a full binary tree

All of the mentioned options

T is a strict binary tree

T is a complete binary tree

Q4.

What is the output of this C code?

A screenshot of a computer program

AI-generated content may be incorrect.

Compile time error

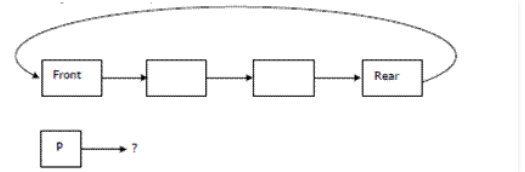
Whatever character getchar function returns

Ascii value of character getchar function returns

2

Q5.

A circularly linked list is used to represent a Queue. A single variable, p, is used to access the Queue. To which node should p point such that both the operations enQueue and deQueue can be performed in constant time?



Rear node

Front node

Not possible with a single pointer

Node next to front

Q6.

What is the output of the following function, if 'start' points to the first node of the following linked list?

1->2->3->4->5->6

A screenshot of a computer program

AI-generated content may be incorrect.

1 4 6 6 4 1

1 3 5 1 3 5

1 2 3 5

1 3 5 5 3 1

Q7.

What will be the output of the following pseudocode?

A screenshot of a math problem

AI-generated content may be incorrect.

-1

8

4

21

Q8.

What will be the output of the following pseudocode?

A screenshot of a computer

AI-generated content may be incorrect.

6

4

2

9

Q9.

Which of the following sorting algorithms can be used to sort a random linked list with minimum time complexity?

Selection Sort

Quick Sort

Heap Sort

Merge Sort

Q10.

What is the purpose of the size specifier in the array declaration in C?

It specifies the data type of the array.

It indicates the size of each element in the array.

It is optional and does not affect the array declaration.

Allocate and reserve the specified memory locations.

Q11.

**Numerological reduction**

Numerological reduction of a number is the sum of digits calculated recursively until the resulting value is a single digit.

You are given a function,

int FindNumerologicalReduction(int n);

The function accepts a positive integer ‘n’. Implement the function to find and return the numerological reduction of ‘n’.

**Assumption**

n >= 0

**Example**

**Input**

3245

**Output**

5

**Explanation**

3245 = 3 + 2 + 4 + 5 = 14

14 = 1 + 4 = 5

Hence 5 is the numerological reduction of 3245

Sample Input

3245

Sample Output

5

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

Q12.

**Problem Statement**

Given an array **A** of size **N** that contains only non-negative integers, find a continuous sub-array that adds to a given number **S** and return the left and right indexes of that sub-array. In the case of multiple subarrays, return the subarray indexes that come first when moving from left to right.

**Note:** Both the indexes in the array should be according to 1-based indexing. You have to return an array list consisting of two elements, left and right. If no such subarray exists, return an array consisting of element -1.

**Example 1**

**Input:**

N = 5, S = 12

A[5] = {1,2,3,7,5}

**Output:**

2 4

**Explanation:**

The sum of elements from the 2nd position to the 4th position is 12.

**Example 2**

**Input:**

N = 10, S = 15

A[10] = {1,2,3,4,5,6,7,8,9,10}

**Output:**

1 5

**Explanation:**

The sum of elements from the 1st position to the 5th position is 15.

Input Format

The first line of input consists of the length of the array, **N**.

The second line of input consists of the sum of the sub-arrays to be searched, **S.**

The third line of input consists of **N** space-separated array elements.

Output Format

The output prints two space-separated integers, representing the start and end index positions of the subarray respectively whose sum is **S**.

If no such subarray exists, return an array consisting of element -1.

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

Constraints

In this scenario, the test cases fall under the following constraints:

1 ≤ N ≤ 105

1 ≤ array elements ≤ 109

Sample Input

5

12

1 2 3 7 5

Sample Output

2 4

Sample Input

10

15

1 2 3 4 5 6 7 8 9 10

Sample Output

1 5

Sample Input

3

22

1 4 5

Sample Output

-1

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

Answer Key & Solution

Section 1 - VERBAL

Q1

3124

Solution

History is a record of the past. It is a mirror which reflects the stream of time as it flows everlastingly in one direction. The reflection cannot, in the nature of things be true, as the mind of the historian is a limited imperfect and distorted medium. Of the millions of happenings at any moment, the historian can select, and record only a few and it is not possible for him to judge, whether they are the only significant ones.

3124 is the correct sequence.

Q2

1,3,2

Solution

Once upon a time, on a far off island, **On the shores of the black sea, there lived an Italian from whose** Hat the rays of the sun were reflected in more than oriental splendour

1, 3, 2 is the logical order.

Q3

I told her that her performance had not been up to mark

Solution

No Solution

Q4

fact

Solution

Wednesday is the fourth day of the week.

Clearly, this is a universal fact.

Q5

accused scene of crime

Solution

I was not/ present at the / accused scene of **the crime**.

'crime' needs the article 'the' before it.

Q6

this raining !

Solution

**Correct sentence -** The plants are going to love all this rain!

Q7

4132

Solution

**I have never come across** Anyone who seriously thought **That he was a serious candidate** In the elections to the senate.

4132 is the logical order.

Q8

ACBD

Solution

A. Richard Branson, Chairman of virgin, recognized that aviation, like the music business, is a consumers industry and that if virgin wanted to dive in, this was the time.

C. Company directors thought he was mad, particularly when he announced the new airline, now renamed Virgin Atlantic Airways(VAA) would be in just over three months.

B. Never one to take "no" for an answer, Branson's infectious enthusiasm ensured that staff was hired, an aircraft found and licenses obtained.

D. It was not easy, especially when there were incidents like aircraft developing engine failure on the eve of the maiden flight. but finally, in June the first flight left for New York, packed with friends, celebrities, and the media.

ACBD is the logical order.

Q9

The held my hand

Solution

**They** held my hand / through troubled times / as if I was / an old friend.

Q10

doesn't

Solution

For Third person singular verb, doesn't should be used in present tense.

Oscar doesn't like ice-cream is the correct sentence.

Q11

213

Solution

among many fine biographies of jonas jonasson, my favourites explored two of these topics with empathy.

213 is the right order.

Q12

213

Solution

I dug up the garden hoping to find the box of gold but to no avail.

213 is the logical order.

Q13

she said that she was going to the shopping centre

Solution

No Solution

Q14

who know about first aid

Solution

'Nobody' always takes singular verbs. So, it should be 'knows' instead of know.

Q15

judgement

Solution

The statement "This is the world's most poisonous spider" is asserting a specific claim about the spider's toxicity. To classify it:

Fact: If it is based on verifiable, scientific evidence that proves the spider is indeed the most poisonous.

Judgement: If it is a subjective opinion about the spider’s toxicity compared to others, without clear scientific evidence.

Inference: If it is based on observed evidence or studies that suggest it is the most poisonous, but may not be directly verified.

Given that the statement makes a definitive claim about the spider's toxicity without providing evidence or context, it is most accurately classified as a:

judgement

Q16

4213

Solution

The philosopher did not merely condone war, he defended it while his apprentice went one step ahead and called it beneficial to the losing nation.

4213 is the logical order.

Q17

the most wanted fugitives of the beverly hills were caught by the cops.

Solution

No Solution

Q18

There is beautiful

Solution

Correct statement - There is **a beautiful** camping site by the lake in his neighbourhood

Q19

Had were

Solution

damaged - past tense

So, past perfect tense should be used for the verb.

Q20

inference

Solution

* **Fact:** A fact is an objective statement that can be verified.
* **Inference:** An inference is a conclusion drawn based on evidence or observations.
* **Judgement:** A judgement expresses an opinion or belief.

The statement "The population density in Mumbai has skyrocketed" doesn't directly state a verifiable number. It uses the word "skyrocketed" which implies a significant increase, but it doesn't quantify it. Therefore, it's not a fact.

However, "skyrocketed" suggests the speaker has some evidence (like news reports or personal experience) leading them to believe the density has grown considerably. So, it's an inference based on some observation.

Section 2 - Q&R

Q1

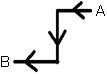
South-west

Solution

The path traversed by Sourav is as follows.

Let A be the house and B be the office.

Hence, B is in the South-west direction from A



Q2

– and ÷

Solution

No Solution

Q3

748

Solution

correct answer is d

length=6x

breadth=5x

given.... 5x=6x-34

hence x=34

length=6\*34=204

breadth=5\*34=170

Perimeter of rectangular plot=2 (l+b)

=748 meters

Q4

72 s

Solution

Total distance covered by lucknow mail = 200 m

Relative speed of Lucknow mail = 10 km/h = 50/18 m/s

time = 200 × 18/50 = 72s.

Q5

5/8

Solution

There are 4 even numbers and 5 odd numbers

Let A = the event of choosing odd numbers

B = the event of getting the sum of an even number.

Then A ⋂ B = The event of choosing odd numbers whose sum is even.

n (B) = 4C2 + SC2 = 16 and n(A ⋂ B) = 5C2 = 10

Required probability = P(A) (A/B) = n (A ⋂ B) / n(B) =10/16 = 5/8.

Q6

11/15

Solution

P(A) = 2/5, P(B) = 1/3 P(A ⋃ B) = 2/5 + 1/3 = 11/15 (A and B are mutually exclusive events).

Q7



Solution

All other figures are identical to one another as any one of them can b obtained by rotating the other. Ans.(2)

Q8

4 (1/2) days

Solution

12 men complete a piece of work in 9 days. Thus, after 3 days, one-third of the work would be complete and two-third would remain. Now, 6 men joined to replace 2 men. Thus, in effect, 4 more people joined. Thus, the equation can be set as 12 men = 6 days then,

 16 men = 12 × 6/16 = 4½ days.

Q9

x = 1, y = –1

Solution

Multiplying 1st equation by 5 and 2nd by 3 and adding we get x = 1.

Putting x = 1 in 1st, we get 4 × 1 – 3y = 7 or y = –1.

Q10

60 paise

Solution

If the price of black ink bottle = X, then price of red ink bottle = 1.2X Now 1.2X = 72 paise => X = 72/1.2 = 60 paise.

Q11

loga (loge a) – loga (loge b)

Solution

=> ax = logb a

=> x = loga (logb a)

= loga (loge a / loge b)

= loga (loge a) – loga (loge b)

Q12

Rs.20

Solution

 C.I = Rs. 420 => Difference = Rs. 20.

Q13

3 + 2√2

Solution

No Solution

Q14

No

Solution

No Solution

Q15

4

A grid with different colored squares

AI-generated content may be incorrect.

Section 3 - TECHNICAL

Q1

The program reports linker error

Solution

No Solution

Q2

The matrix A itself

Solution

No Solution

Q3

All of the mentioned options

Solution

All the nodes are having two child so this tree is a complete binary tree, strict binary tree and full binary tree.

Q4

Ascii value of character getchar function returns

Solution

No Solution

Q5

Rear node

Solution

No Solution

Q6

1 3 5 5 3 1

Solution

No Solution

Q7

4

Solution

Inside for loop, the value of 'a' is added and subtracted by 'c', so there is no change in the 'a' value.

As a result 3+1 = 4.

Q8

4

Solution

Binary representation for p,q,r is

p=1=> 0001

q=2=> 0011

r= 0=> 0000

1<2 (TRUE)

p= 0001<<1 => 0010

p=2

if(2 > 2) (FALSE)

Therefore 2+2+0 = **4**

Q9

Merge Sort

Solution

**Explanation:**

Among the options provided, **Merge Sort** is the most efficient sorting algorithm for sorting a random linked list. It has a time complexity of **O(n log n)** and is stable, meaning it maintains the order of equal elements.

For a linked list, Merge Sort is particularly effective because it does not require random access to elements. It can be implemented efficiently by recursively dividing the list and merging the sublists.

Q10

Allocate and reserve the specified memory locations.

Solution

No Solution

Q11

Solution

#include <iostream>

using namespace std;

int main()

{

int n;

cin >> n;

if(n % 9 == 0)

cout << "9";

else

cout << n % 9;

return 0;

}

Q12

import java.util.Scanner;

class Main {

static void subarraySum(int[] arr, int n, int s, int[] result) {

int sum = 0;

result[0] = 0;

result[1] = -1;

int i = 0, st = 0;

while (i < n) {

sum += arr[i];

while (sum > s) {

sum -= arr[st];

st++;

}

if (sum == s) {

result[0] = st + 1;

result[1] = i + 1;

return;

}

i++;

}

}

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

int l = sc.nextInt();

int sum = sc.nextInt();

int[] arr = new int[l];

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

arr[i] = sc.nextInt();

}

int[] result = new int[2];

subarraySum(arr, l, sum, result);

if (result[1] == -1) {

System.out.print("-1");

} else {

System.out.print(result[0] + " " + result[1]);

}

}

}

OR

#include <iostream>

using namespace std;

void subarraySum(int arr[], int n, int s, int &start, int &end) {

int sum = 0;

start = 0;

end = -1;

int i = 0, st = 0;

while (i < n) {

sum += arr[i];

while (sum > s) {

sum -= arr[st];

st++;

}

if (sum == s) {

start = st + 1;

end = i + 1;

return;

}

i++;

}

}

int main() {

int l, sum;

cin >> l;

int arr[l];

cin >> sum;

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

cin >> arr[i];

}

int start = 0, end = -1;

subarraySum(arr, l, sum, start, end);

if (end == -1) {

cout << "-1";

} else {

cout << start << " " << end;

}

return 0;

}

OR

#include <stdio.h>

#include <stdlib.h>

void subarraySum(int arr[], int n, int s, int \*start, int \*end) {

int sum = 0, i = 0, st = 0;

while (i < n) {

sum += arr[i];

while (sum > s) {

sum -= arr[st];

st++;

}

if (sum == s) {

\*start = st + 1;

\*end = i + 1;

return;

}

i++;

}

\*start = -1;

\*end = -1;

}

int main() {

int l, sum, start, end;

scanf("%d %d", &l, &sum);

int arr[l];

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

scanf("%d", &arr[i]);

}

subarraySum(arr, l, sum, &start, &end);

if (start == -1) {

printf("-1");

} else {

printf("%d %d", start, end);

}

return 0;

}

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Bottom of Form

Top of Form

Bottom of Form