

You are in Section 6: Logical Analysis, question 2 of 2. There are a total of 1 sections.

Seating Arrangement #4

Eight students with roll numbers from 1 to 8 are sitting around a circular table with 8 chairs around it

- 4 students are facing inwards (towards the center of the table), and 4 are facing outwards (facing away from the center of the table)
- Roll no 4 is facing the center and is third to the right of roll no 1
- Roll no 1 is third to the right of roll no 6
- Roll no 6 is facing the center.
- Roll no 3 is fourth to the left of roll no 7
- Roll no 8 is third to the right of roll no 5
- Roll no 5 is not a neighbour of roll no 7
- Roll no 5 sits second to the right of roll no 3
- Roll no 2 is on the immediate right of roll no 7

What is the roll no of the student sitting to the left of roll no 5? Give your answer as a single integer
Write 0 if you think the answer cannot be logically deduced from the given information

Answer

Submit

You are in Section 6: Logical Analysis, question 1 of 2. There are a total of 7 sections.

Seating Arrangement #5

Eight students with roll numbers from 1 to 8 are sitting around a circular table with 8 chairs around it

- All students with roll numbers 4 or more are facing inwards (i.e. facing towards the center of the table)
- Out of roll numbers 1, 2 and 3, exactly two of them are facing outwards
- Roll no 6 is second to the left of roll no 3.
- Roll no 5 is third to the right of roll no 1.
- Roll no 2 is third to the left of roll no 4
- Roll no 4 is the immediate neighbor of both, roll nos 7 and 8.
- Roll no 3 is second to the right of roll no 4 and third to the right of roll no 2

If roll no 7 is a neighbor of roll no 5, how many students are sitting between roll no 7 and roll no 3 (when going anti-clockwise from 7 to 3)? Give your answer as a single integer. Write 0 if you think the answer cannot be logically deduced from the given information

Answer

Submit

You are in Section 5: Logical Reasoning #1, question 1 of 5. There are a total of 7 sections.

Logic #1

Consider this statement

In a company, 80% of the revenue comes from customers buying Java programs

Which of the following statements follow logically from this

Pick the closest option

- ☐ 80% of the customers want Java programs
- ☐ 80% of the programmers in the company write Java
- ☐ If all revenue of the company is generated by new programs written by their programmers then 80% of the revenue comes from programmers who write Java
- ☐ 20% of the revenue comes from C/C++ programs
- ☐ 80% of the profits come from customers who want Java programs

Submit

Average Ages

The average age of 4 men is 60. If the difference in age between oldest 3 men is 5 years each, and the youngest man is 15 years younger than the 3rd oldest man, how old is the youngest man? If you think there is not sufficient data to answer this question, then put 0 as your answer.

Answer

Submit

You are in Section 5: Logical Reasoning #1, question 3 of 5. There are a total of 7 sections.

Logical Reasoning #17

Consider these statements:

All the toppers get high-paying jobs. All the high-paying jobs are in the software industry

Which of the following statements follow logically:

Pick all that apply

- ☐ All toppers get jobs in the software industry
- ☐ The software industry only takes toppers
- ☐ All the high-paying jobs are taken by toppers
- ☐ Those who get jobs in non-software industry are not toppers
- ☐ All those who get high-paying jobs are toppers

Submit

You are in Section 4: General Aptitude, question 7 of 10. There are a total of 7 sections

Mobiles #2

A man had Rs. 15000. He used some of that money to buy two mobile phones and then sold them both for Rs. 6000 each. He made a profit of 20% on one and a loss of 20% on the other. How many rupees does he have left now?

Answer

Submit

You are in Section 4: General Aptitude, question 3 of 10. There are a total of 7 sections.

Imported Bananas

A fruit seller was selling imported bananas. I told him to give me Rs 120 worth of bananas. After he gave me the bananas, I told him that they were too small, and forced him to give me 2 extra bananas free. He complained that because of giving me these two extra bananas, he is getting Rs 10 per dozen less on this transaction than the original price. How many bananas did I get (including the 2 extra bananas)?

Answer

Submit

Please read this example carefully to make sure you really, *really* understand what the program is supposed to do. If your submission is rejected by the system, it is very likely that you did not read the instructions properly, or did not study the example closely.

Please make sure of the following:

- You must write this program in one of the languages supported by the system. See the dropdown list at the bottom of this page to see which languages are supported. If you write your program in C, Java, C++, C#, or Python you can use this **C Program**, **C++ Program**, **Java Program**, **C# Program**, or **Python Program** as a starting point. That will make your job easier. For the other languages, you have to write the whole program yourself.
- You *must* submit a full, working, program. Please compile, run, and check the output of your program before submitting it.
- All your changes must be inside the process function/method. Do not make any changes to the rest of the program.
- Make sure that process returns the correct integer value.
- If you're using C, please make sure to use only standard C. Do not use proprietary Microsoft or Turbo-C extensions. Specifically, do not use `clrscr`, `getch`, or `conio.h`.
- Do not print anything extra to the standard output. Any unnecessary `printf`/`println`/`puts`/`write` result in a program disqualification.
- If you're using Java, the program must have a `public static int TaskMain()` and it should not contain any package declaration.

3
7
-1

When your program is run, it should output 4 (and nothing else).

Please read this example carefully to make sure you really, *really* understand what the program is supposed to do. If your submission is rejected by the system, it is very likely that you did not follow the instructions properly, or did not study the example closely.

Please make sure of the following:

- You must write this program in one of the languages supported by the system. See the list at the bottom of this page to see which languages are supported. If you write your program in C, Java, C++, or C# use this **C program**, **Java program**, **C++ program**, or **C# program** as a starting point. That will make your job easier. For the other languages, you have to write the whole program yourself.
- You *must* submit a full, working program. Please compile, run, and check the output of your program before submitting it.
- If using one of the starter programs above, all your changes must be inside the provided function/method. Do not make any changes to the rest of the program.
- Make sure that your program prints a single integer to the standard output and *nothing else*. Unnecessary printf/println/putchar will result in a program judged as incorrect.
- If you're using C, please make sure to use only standard C (C89/C90). Do not use C extensions. That will also result in a program judged as incorrect.

Sort #2

Being a Software Engineer (Testing) requires you to be a software detective. You have to use your intuition, judgement, and clues to figure out where the bugs might be hiding. The problem below requires you to be such a detective.

(Note: there are 3 very similar questions in this test. The question looks the same, but each time, it has a different bug.)

Consider this mini-online program. If you enter a list of comma-separated integers, and click Process, it should print the same list in sorted order under Output. It is a little limited in the input formats it can understand, so it will give you an "Invalid Input" message if it is not able to parse the input you entered.

Input a list of comma separated numbers.

Process

Output

However, there is a bug in this mini-program. There are certain inputs for which it gives a wrong answer (i.e. the numbers are not really sorted properly). Can you find an input string for which this mini program gives an incorrect answer? Once you've found such an input string, please enter it in the **Answer** box below, and click submit. (Note: do not submit an input that results in Invalid Input. You must submit something that results in a wrong answer.)

Answer

Array Average

Consider this **C Program**, **C++ Program**, **Java Program** or **C# Program**. It reads integers from the standard input (until it gets a negative number) and puts them into an array. After that it calls `processArray` on the array, and then prints the value that is returned to standard output.

Currently `processArray` does nothing and simply returns 0. You have to modify it so that it computes the average of all the integers in the array. (Note: use integer division while computing the average, so that any fractional value is truncated.) It should return 0 if the array is empty.

For example, if these numbers were provided on the standard input:

```
1
2
3
4
5
```

Your program should then output 4 (i.e. $(1+2+3+4+5)/5 = 3$).

For more information, go to the link: [https://www.hackerrank.com/challenges/array-average](#)

Count Numbers

Consider this **C Program**, **C++ Program**, **Java Program**, **C# Program**, or **Python Program**. It reads one string from the file `input.txt` and does some processing on the string by calling `process` on it, which returns an `int`. This `int` is printed to the output file `output.txt`.

Currently, `process` does not do anything. It just returns 0. You have to change this program so that it counts the number of pure-integers in the string. For the purposes of this program, assume that a pure-integer is any sequence of 1 or more consecutive digits (i.e. 0 to 9). Ignore + and - signs, decimal points, and other complicated numbers. Thus, if the input string is

```
"I will eat 2 burgers 23 fries & 1.25 cokes 18r"
```

The output should be

5

(Because 1.25 is treated as two different numbers 1 and 25, and 0 is also treated as a number.)

Please read this example carefully to make sure you're really, really, understanding what the program is supposed to do. If your submission is rejected by the system, it is very likely that you have not understood the requirements.

Average Speed #2

Jai drives from city A to city B at an average speed of 90kmph. As soon as he reaches, he turns around and comes back to city A, but this time at an average speed of 30kmph. What is his average speed in kmph for the whole journey? Round off your answer to the nearest whole number. If you think there isn't sufficient data to answer this question, then put 0 as your answer.

Answer

Submit

Cube

A wooden cube of $3\text{cm} \times 3\text{cm} \times 3\text{cm}$ is painted red on all six surfaces. This cube is then cut into 27 cubes of $1\text{cm} \times 1\text{cm} \times 1\text{cm}$ each. How many of these small cubes have none of their surfaces painted red?

Answer

Submit

You are in Section 4: General Aptitude, question 4 of 10. There are a total of 7 sections.

8 Apples

Jai brings 5 apples, and Veeru brings 3 apples, and Thakur brings nothing. They share the apples equally and eat them. Thakur gives them Rs. 160 for his share of the apples. Out of this, how many Rupees should Jai take for his contribution to the apples?

Answer

Submit

QA Engineer

You are in Section 4: General Aptitude, question 6 of 10. There are a total of 7 sections.

Ages #8

If you reverse the digits of my mother's age, you get my father's age. And the sum of their ages is 11 times the difference between their ages. If my mother is younger than my father, how old is she?

Answer

Deleting Data

A meteorological department uses a table called Readings in a database to store minute-by-minute readings of daily temperature readings from a large number different locations. At midnight every day, a query is executed to compute the minimum, maximum and average temperatures at each location, and this data is stored in a separate table. After this the data in Readings is no longer needed and is deleted. Then the data collection for the next day starts.

Pick the closest option

- ☐ DROP TABLE Readings; followed by re-creating the Readings table
- ☐ DELETE FROM Readings;
- ☐ DELETE FROM Readings WHERE ROWNUM > 0;
- ☐ TRUNCATE TABLE Readings;
- ☐ This is best done using a Java Program and a JDBC connection

Submit

Logic #4

Consider this statement:

Jai: IITs are producing great engineers, who ultimately end up benefiting science and technology in India, but more important is the fact that they are greatly improving the image of India in the west

Vijay: No, you're mistaken. Producing great engineers who benefit science and technology in India is the most important function of IITs. Without IITs, most of our software industry wouldn't have existed.

Which of these points do Jai and Vijay disagree about?

Pick the closest option

- ☐ Whether IITs produce great engineers
- ☐ Whether IITs improve the image of India abroad
- ☐ Whether IITs are important to India or not, because most of their great engineers end up migrating to the west
- ☐ Whether producing great engineers who benefit science and technology in India is the most important function of IITs
- ☐ Whether improving the image of India abroad is important

Submit

You are in Section 1: Database Concepts, question 5 of 5. This is the last section.

Transaction #1

Consider a bunch of different programs which are all accessing and/or updating the same RDBMS. Each program starts a transaction at the beginning, runs a bunch of queries or update statements, and then commits the transaction.

Which of the following statements are true?

Pick all that apply

- ☐ Those programs which are only running readonly queries, and are not updating the database in any way need not begin or commit the transaction
- ☐ If all the programs are running only readonly queries, and if the database is not being updated in any other way, then the begin and commit transaction can be removed from all the programs
- ☐ If none of the programs are run concurrently (i.e. they are only run one after the other), and the database is not being updated in any other way, then the begin and commit transaction can be removed from all the programs even if they're updating the database
- ☐ If a program that updates the database crashes during an update, then the database will need to be restarted
- ☐ If a program that updates the database crashes anytime after a transaction has begun, but before it has been committed, then the database will need to be restarted

Submit

rest of the program

- Make sure that `process` returns the co
- If you're using C, please make sure to u
Turbo-C extensions. Specifically, do not
- Do not print anything extra to the standar
result in a program disqualification.
- If you're using Java, **the program must h
not contain any package declaration.**

c
C++
java1.8
Shell Command
c#
JavaScript/NodeJS
golang
C++98
C++03
C++11
java9
python2
python3
C++14
perl5
ruby2.3.x
php7
VisualBasic
java1.8

▼

```
anner(System.in);  
("Enter the String: ");  
t();
```

```
.length;i++)
```

```
t(i);
```

```
("Number of spaces in given
```

Submit

Give Up

- You have 2 attempts left for this problem.
- Click "Give Up" to give up and advance to the n
been saved in the system. Note: once you give u