



What is your question?



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.

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

Sort #1

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



Highest Odd

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 finds the highest odd number in the array and prints that to the standard output. It should return 0 if the array has no odd numbers.

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

```
2
5
3
8
-1
```

When your program is run, it should output 5 (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 read the instructions properly, or did not study the example closely.

Please make sure of the following

Consider the following SQL query:

```
SELECT Employee.Name, Department.Name  
FROM Employee, Department  
WHERE Employee.DepartmentID = Department.ID  
AND Employee.Age > 25  
AND Department.Location = 'Pune'
```

Which of the following statements are likely to be true?

Pick all that apply

- ☐ If there is an Employee of age 27 whose DepartmentID does not match any ID in the Department table, then that Employee's name will be included in the output of this query with a NULL value in the place of Department.Name
- ☒ If there is an Employee of age 27 whose DepartmentID matches the ID of two different rows in the Department table, and the Location of both those Departments is 'Pune' then that Employee's name will appear twice in the output of this query
- ☐ If there is an Employee of age 27 whose DepartmentID matches the ID of two different rows in the Department table, and the Location of both those Departments is 'Pune', and the Name of both those Departments is the same, then that Employee.Name, Department.Name pair will appear only once in the output of this query
- ☐ If there is an Employee of age 27 whose DepartmentID matches the ID of one row in the Department table, and the Name of that department is NULL, then that Employee's name will not be included in the output of this query.

Submit

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 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 space sequences in the string. One or more consecutive whitespace characters are counted as one space sequence. Thus, if the first line of `input.txt` is:

```
"Hey , r u free          now?"
```

Then the output should be:

5

(Note: there are 2 spaces after `Hey` - one before the comma and one after the comma, and only one space after `free`. Your program should also handle tabs, newlines and other whitespace characters appropriately.

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#**

QA Engineer

You are in Section 7: Database Concepts, question 5 of 5. This is the last section.

Transaction #2

A program that accesses an RDBMS starts a transaction, updates a single row of a database table, and then commits the transaction. At this point, there is a power failure, and the database crashes. Which of the following statements are true?

Pick all that apply

- ☐ The update is guaranteed to be persistent (permanent) if the power failure happened after the commit method returned successfully
- ☐ The update is guaranteed to be persistent (permanent) only if the finalize method on the Transaction object had been called by the Java Garbage Collector before the power failure
- ☐ If the power failure happened before the commit was called in the Java program, then the update is guaranteed to not have happened at all
- ☐ When the database is restarted, the database administrator is shown all the incomplete transactions and can choose whether to commit them, or to abort them.
- ☐ As long as the power failure happened after the begin transaction method has succeeded, the update is guaranteed to be persistent (permanent)

Submit

QA Engineer

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

Seating Arrangement #6

Twelve students are standing in two rows facing each other in such a way that each boy in the group is facing a girl:

- Roll numbers 1 to 6 are boys
- Roll numbers 7 to 12 are girls
- Roll no 7 is to the immediate right of the girl who is facing roll no 5
- Roll no 5 is at the extreme right. i.e. there are no students to the right of roll no 5.
- Only roll no 2 is standing between roll no 4 and roll no 5.
- Roll no 6 is to the immediate left of roll no 1 and to the immediate right of roll no 3.
- roll no 9 is facing roll no 1 and is to the immediate left of roll no 8.
- Roll no 12 is third to the left of roll no 10.

What is the roll no of the student facing roll no 4? Give your answer as a single integer. Write 0 if you think the answer cannot be logically deduced from the given information

Answer

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?

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?

A man's car has 5 tires (4 in regular use and 1 stepney). The car has travelled a total of 10000 km. During this period, to ensure an even amount of wear and tear on each of the 5 tires, he has been changing the tires regularly, so all tires have traveled an equal number of km. How many km has each tire traveled?

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?

Jai's present age is 3 years more than 3 times the present age of vijay. 3 years from now, jai's age will be 10 more than twice the age of vijay. What is jai's present age in years

Database FLT consists of a single table with 20 columns. Database TNF has the same conceptual data, but the scheme is in third normal form, and hence consists of 4 different tables. Which of the following statements must be true?

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.

A man has spent $\frac{1}{4}$ th of his life as a boy, $\frac{1}{5}$ th as an unmarried bachelor, $\frac{1}{3}$ rd as a married man before his wife died. After that he spent 13 years as a widower. How old is he now?

From the market, I bought 6 pineapples and 2 jackfruit for a total of Rs. 60. If the number of pineapples I can buy for Rs. 56 is 4 more than the number of jackfruit I can buy for Rs. 36, what is the price of each pineapple in Rupees? If you think there isnt sufficient data to answer this question, then put 0 as your answer

Five men are employed for strawberry picking. They all don't pick strawberries at the same speed. They pick in the ratio of $1 :: 2 :: 3 :: 4 :: 5$. That is, the second man picks 2 times as many strawberries as the first in the same amount of time, and the 3rd man picks 3 times as many strawberries as the first, and so on. To compensate for this, their manager makes the slower men work for more time. In fact, he makes them spend time in the ratio $5 :: 4 :: 3 :: 2 :: 1$. That is, the first man works 5 times longer than the 5th man, and so on. At the end of the day, the manager realizes that they have not all picked the same amount of strawberries. Two men have picked 250 strawberries each. Two other men have picked more than these two. And one man has picked the maximum - more than anyone else. How many strawberries did this man pick?

QA Engineer

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

Seating Arrangement #1

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)
- No two students facing inwards are sitting next to each other (*i.e.* they're alternating)
- Roll no 4 sits in the third chair to the right of 1. (*i.e.* there are two students sitting between them.)
- Roll no 1 is facing inwards
- Roll no 8 is not an immediate neighbor of roll nos 1 or 4.
- Roll no 5 sits in the third chair to the right of roll no 3.
- Roll no 3 is facing inwards, and is not an immediate neighbor of roll no 8.
- Only one student sits between roll nos 1 and 6.
- Roll no 2 is not an immediate neighbor of roll no 6.

Who is the immediate neighbor of 1 to the right? Give your answer as a single integer. Write 0 if you think the answer cannot be logically deduced from the given information

Answer

Submit

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?