



19

Which one of the following statements is false?

Marks: 1

Negative Marks: 0

Mark as error

The data dictionary is a tool used exclusively by the database administrator.

Data elements in the database can be modified by changing the data dictionary.

The data dictionary is normally maintained by the database administrator.

The data dictionary contains the name and description of each data element.

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test



85%



23:43

17

What data type is the object below ? L = [1, 23, 'hello', 1]

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

Array

Lists

Dictionary

Tuples

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

- 1    2    3    4    5    6    7    8    9    10    11    12
- 13    14    15    16    17    18    19    20

176:26

End Test

<< Previous

Next >>



18

Which module in Python supports regular expressions?

✓ Marks: 1

✗ Negative Marks: 0

⚠ Mark as error

re

none of the mentioned

pyregex

regex

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

- 1    2    3    4    5    6    7    8    9    10    11    12
- 13    14    15    16    17    18    19    20



85% 23:43

16

Evaluate the expression given below if A= 16 and B = 15.

A % B // A

✓ Marks: 1

✗ Negative Marks: 0

⚠ Mark as error

0.0

1

1.0

0

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

1 2 3 4 5 6 7 8 9 10 11 12

176:35

End Test

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Next >>



15

Which of the following functions is a built-in function in python?

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

print()

seed()

factorial()

sqrt()

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20

176:47

End Test

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Next >>



85% 23:43

14

When we have red-black trees and AVL trees that can perform most of operations in logarithmic times, then what is the need for splay trees?

Marks: 1

Negative Marks: 0

Mark as error

redblack and avl are not upto mark

In real time it is estimated that 80% access is only to 20% data, hence most used ones must be easily available

no there is no special usage

they are just another type of self balancing binary search trees

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

176:55

End Test

&lt;&lt; Previous

Next &gt;&gt;



85%



23:42

13

The output of the code shown below is:

```
re.split('mum', 'mumbai*', 1)
```

Marks: 1

Negative Marks: 0

Mark as error

Error

[", 'bai\*']

[", 'bai']

['bai\*']

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

1

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19

20

177:01

End Test

<< Previous

Next >>



20

The command to remove rows from a table 'CUSTOMER' is:

✓ Marks: 1

✗ Negative Marks: 0

[⚠ Mark as error](#)

DROP FROM CUSTOMER ...

DELETE FROM CUSTOMER WHERE ...

UPDATE FROM CUSTOMER ...

REMOVE FROM CUSTOMER ...

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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- 18
- 19
- 20



12

The benefits of a standard relational language include which of the following?

Marks: 1

Negative Marks: 0

Mark as error

All of the above.

Applications are not needed.

Reduced training costs

Increased dependence on a single vendor

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

- 1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20



11

Given two sorted list of size m and n respectively. The number of comparisons needed the worst case by the merge sort algorithm will be

Marks: 1

Negative Marks: 0

Mark as error

$m + n - 1$

minimum of m and n

maximum of m and n

$m \times n$

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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12

177:16

End Test

<< Previous

Next >>



10

The relational database model is based on concepts proposed in the 1960s and 1970s.

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

False

True

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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- 18
- 19
- 20

Hands-on coding

- 1
- 2



9

If one uses straight two-way merge sort algorithm to sort the following elements in ascending order: 20, 47, 15, 8, 9, 4, 40, 30, 12, 17 then the order of these elements after second pass of the algorithm is:

Marks: 1

Negative Marks: 0

Mark as error

8, 15, 20, 47, 4, 9, 30, 40, 12, 17

4, 8, 9, 15, 20, 47, 12, 17, 30, 40

8, 9, 15, 20, 47, 4, 12, 17, 30, 40

15, 20, 47, 4, 8, 9, 12, 30, 40, 17

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test



85% 23:42

8

A row in a database can also be called a domain.

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

True

False

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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- 18
- 19
- 20

Hands-on coding

- 1
- 2

177:42

End Test

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Next >>



7

The output of the code shown below:

```
re.escape('new**world')
```

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

'new world'

'new', '\*', '\*', 'world'

'\*\*'

'new\\\*\\\*world'

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20

177:49

End Test

<< Previous

Next >>



85%



23:42

6

What output does the below pseudo code produces?

```
Tree_node function(Tree_node x)
{
    Tree_node y = x.left;
    x.left = y.right;
    y.right = x;
    return y;
}
```

✓ Marks: 1

✗ Negative Marks: 0

⚠ Mark as error

right rotation of subtree

zig-zig operation

left rotation of subtree

zig-zag operation

Clear

177:57

End Test

<< Previous

Next >>



85%

23:41

5

What are the children for node 'w' of a complete-binary tree in an array representation?

Marks: 1

Negative Marks: 0

Mark as error

w+1/2 and w/2

w-1/2 and w+1/2

2w and 2w+1

2+w and 2-w

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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  - 18
  - 19
  - 20

178:04

End Test

<< Previous

Next >>



23:41

4

The value of the expressions  $4/(3*(2-1))$  and  $4/3*(2-1)$  is the same. State whether true or false.

Marks: 1

Negative Marks: 0

Mark as error

True

False

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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- 18
- 19
- 20

Hands-on coding

- 1
- 2

178:12

End Test

<< Previous

Next >>



85%

23:41

3

What is the output of the following?

`print("Hello {0!r} and {0!s}".format('foo', 'bin'))`

Marks: 1

Negative Marks: 0

Mark as error

Hello foo and foo

Hello foo and 'bin'

Error

Hello 'foo' and foo

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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20

178:26

End Test

<< Previous

Next >>



2

Which of the following is the original purpose of SQL?

Marks: 1

Negative Marks: 0

Mark as error

To define the data structures

To specify the syntax and semantics of SQL data definition language

To specify the syntax and semantics of SQL manipulation language.

All of the above.

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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12

178:35

End Test

<< Previous

Next >>



1

\_\_\_\_\_ is a simple but incomplete version of a function.

✓ Marks: 1

✗ Negative Marks: 0

▲ [Mark as error](#)

Function

A function developed using top-down approach

Stub

A function developed using bottom-up approach

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

Objective Test

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  - 19
  - 20



20

The character Dot (that is, '.') in the default mode, matches any character other than \_\_\_\_\_

✓ Marks: 1

✗ Negative Marks: 0

[⚠ Mark as error](#)

newline

ampersand

percentage symbol

caret

[Clear](#)

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

- 1
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- 10
- 11
- 12



19

The expression  $a\{5\}$  will match \_\_\_\_\_

characters with the previous regular expression.

Marks: 1

Negative Marks: 0

Mark as error

exactly 5

5 or more

5 or less

exactly 4

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

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18

Let A<sub>1</sub>, A<sub>2</sub>, A<sub>3</sub>, and A<sub>4</sub> be four matrices of dimensions 10 x 5, 5 x 20, 20 x 10, and 10 x 5, respectively. The minimum number of scalar multiplications required to find the product A<sub>1</sub>A<sub>2</sub>A<sub>3</sub>A<sub>4</sub> using the basic matrix multiplication method is

Marks: 1

Negative Marks: 0

[Mark as error](#)

1000

2000

1500

2500

[Clear](#)

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0



17

Which of the following functions results in case insensitive matching?

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

re.A

re.I

re.U

re.X

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

- 1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20



16

What is a 'tuple'?

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

An attribute attached to a record

Another name for the key linking different tables in a database.

Another name for a table in an RDBMS

A row or record in a database table

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input checked="" type="checkbox"/>	Bookmarked	0
<input checked="" type="checkbox"/>	Attempted & Bookmarked	0

Objective

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15

Which of the following are features of the object-oriented approach to databases?

Marks: 1

Negative Marks: 0

Mark as error

The ability to develop databases using natural language approaches.

The ability to develop database models based on location rather than state and behaviour.

The need to split objects into their component parts.

The ability to develop more realistic models of the real world.

The ability to represent the world in a non-geometric way.

Clear

Unattempted 22

Attempted 0

171:56

End Test

<< Previous

Next >>



76%



23:21

14

\_\_\_\_\_ matches the end of the string.

Marks: 1

Negative Marks: 0

Mark as error

'\$', '^'

'^', '\$'

'?', '^'

'\$', '?'

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

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172:02

End Test

<< Previous

Next >>



75%



23:21

13

Which of the following are characteristics of an RDBMS?

Marks: 1

Negative Marks: 0

Mark as error

It cannot use SQL

Data are organized in a series of two-dimensional tables each of which contains records for one entity

Tables are linked by common data known as keys

Queries are possible on individual or groups of tables

Keys may be unique or have multiple occurrences in the database

Clear

Unattempted 22

Attempted 0

Bookmarked 0

172:10

End Test

<< Previous

Next >>



12

The running time of Bellmann Ford algorithm is lower than that of Dijkstra's Algorithm.

✓ Marks: 1

✗ Negative Marks: 0

⚠ Mark as error

False

True

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

- 1    2    3    4    5    6    7    8    9    10    11    12
- 13    14    15    16    17    18    19    20

Hands-on Coding

- 1    2



11

Which of the following will result in an error?

Marks: 1

Negative Marks: 0

Mark as error

>>> p = re.escape('hello')

>>> p = re.compile("d")  
>>> p.search("door")

>>> p = re.subn()

>>> p = re.purge()

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

- 1 2 3 4 5 6 7 8 9 10 11 12  
13 14 15 16 17 18 19 20



75% 23:20

10

What is the output of the following function?

re.findall("hello world", "hello", 1)

✓ Marks: 1

✗ Negative Marks: 0

▲ Mark as error

[ ]

hello world

hello

["hello"]

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

172:46

End Test

<< Previous

Next >>



23:20

What is the output of the code shown?

```
import re  
re.ASCII
```

✓ Marks: 1

✗ Negative Marks: 0

A [Mark as error](#)

64

8

32

256

[Clear](#)

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

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- 12

13 14 15 16 17 18 19 20 21 22

172:56

[End Test](#)

[<< Previous](#)

[Next >>](#)



75%

23:20

What is the output of the line of code shown below?

`re.split('\W+', 'Hello, hello, hello.')`

Marks: 1

Negative Marks: 0

[Mark as error](#)

['Hello', 'hello', 'hello', '']

['Hello', 'hello', 'hello.']}

['Hello', 'hello', 'hello', ':']

['Hello', 'hello', 'hello']

[Clear](#)

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

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173:02

[End Test](#)

[<< Previous](#)

[Next >>](#)



75%

23:20

7

What does the abbreviation DBMS stand for?

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

Digital Base Mapping System

Database Management System

Database Manipulation Software

Data Borrowing and Movement Software

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

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173:08

End Test

<< Previous

Next >>



75%



23:20

What does the following piece of code do?

```
for (int i = 0; i < arr.length-1; i++)  
{  
    for (int j = i+1; j < arr.length; j++)  
    {  
        if( arr[i].equals(arr[j])) && (i != j) )  
        {  
            System.out.println(arr[i]);  
        }  
    }  
}
```

Marks: 1

Negative Marks: 0

Mark as error

None of these

Print the unique elements in the array

Print the element with maximum frequency

Print the duplicate elements in the array

Clear

173:17

End Test

<< Previous

Next >>



75% 23:20

# InfyTQ\_Certification\_Test2

173:23

Objective



6

What does the following piece of code do?

```
for (int i = 0; i < arr.length-1; i++)  
{  
    for (int j = i+1; j < arr.length; j++)  
    {  
        if( arr[i].equals(arr[j])) && (i != j) )  
        {  
            System.out.println(arr[i]);  
        }  
    }  
}
```

✓ Marks: 1

✗ Negative Marks: 0

[⚠ Mark as error](#)

None of these

173:23

[End Test](#)

[<< Previous](#)

[Next >>](#)



75%



23:20

## Objective



5

Redundancy is minimised with a computer based database approach.

✓ Marks: 1

✗ Negative Marks: 0

Mark as error

False

True

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective

- 1    2    3    4    5    6    7    8    9    10    11    12
- 13    14    15    16    17    18    19    20

173:28

End Test

<< Previous

Next >>



4

The advantages of Standard Query Language (SQL) include which of the following in relation to GIS databases?

Marks: 1

Negative Marks: 0

Mark as error

It is good at handling geographical concepts

It uses a pseudo-English style of questioning

It is simple and easy to understand

It is widely used

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

Objective



75% 23:20

# InfyTQ\_Certification\_Test2

173:42

Objective



3

A first step in database creation should be needs analysis.

✓ Marks: 1

✗ Negative Marks: 0

[⚠ Mark as error](#)

True

False

Clear

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

...

173:42

End Test

<< Previous

Next >>



# InfyTQ\_Certification\_Test2

173:47

Objective



2

In entity attribute modelling a many to many relationship is represented by M:M.

Marks: 1

Negative Marks: 0

[Mark as error](#)

False

True

[Clear](#)

<input type="checkbox"/>	Unattempted	22
<input checked="" type="checkbox"/>	Attempted	0
<input type="checkbox"/>	Bookmarked	0
<input type="checkbox"/>	Attempted & Bookmarked	0

...

173:47

[End Test](#)

[<< Previous](#)

[Next >>](#)



75%

23:19



 <https://app.placementsseason.com/mobile>



1

Which of the following is correct recurrence for worst case of Binary Search?

 Marks: 1

## **✗ Negative Marks: 0**



$$T(n) = 2T(n/2) + O(1) \text{ and } T(1) = T(0) = O(1)$$

$T(n) = T(n-1) + O(1)$  and  $T(1) = T(0) = O(1)$

$$T(n) = T(n/2) + O(1) \text{ and } T(1) = T(0) = O(1)$$

$$T(n) = T(n-2) + O(1) \text{ and } T(1) = T(0) = O(1)$$

Clear

Unattempted	22
Attempted	0
Bookmarked	0
Attempted & Bookmarked	0

174:00

End Test

Next >>



75% 23:19

Write a code to check whether product of digits at even places is divisible by sum of digits at odd place of a positive integer.

### Input Format

Single positive integer

### Output Format

Output displays either TRUE or FALSE depending on the computational results.

### Sample Testcases

#### Testcase 1 Input

1256

#### Testcase 1 Output

TRUE

#### Testcase 2 Input

1595

#### Testcase 2 Output

FALSE

**Time Limit:** 10 ms

**Memory Limit:** 256 kb

**Code Size:** 1024 kb

✓ **Marks:** 20

✗ **Negative Marks:** 0

[Mark as error](#)



## Output Format

Output is displayed as shown in the sample test cases according to the scenario.

## Constraints

Maximum number of rows and columns = 10

## Sample Testcases

### Testcase 1 Input

```
3 3  
56-8 5  
-6 8 9  
7 4 19
```

### Testcase 1 Output

2 Perfect Squares.

### Testcase 2 Input

```
-8 -6
```

### Testcase 2 Output

Invalid Rows or column

### Testcase 3 Input

```
1 6  
8 5 19 24 53 78
```

### Testcase 3 Output

No Perfect Squares.

**Time Limit:** 10 ms

**Memory Limit:** 256 kb

**Code Size:** 1024 kb

✓ **Marks:** 20

✗ **Negative Marks:** 0