

MTH202 FINAL TERM PAST PAPER

SOLVED BY VU TEAM HADI

QUESTION:The method of loop invariants is used to prove _____ with respect to certain pre and post-conditions.

- correctness of algorithm
- correctness of a loop**
- correctness result
- correctness of variables

QUESTION:Compute $[-1.01]$

- 2**
- 1
- 2
- 1

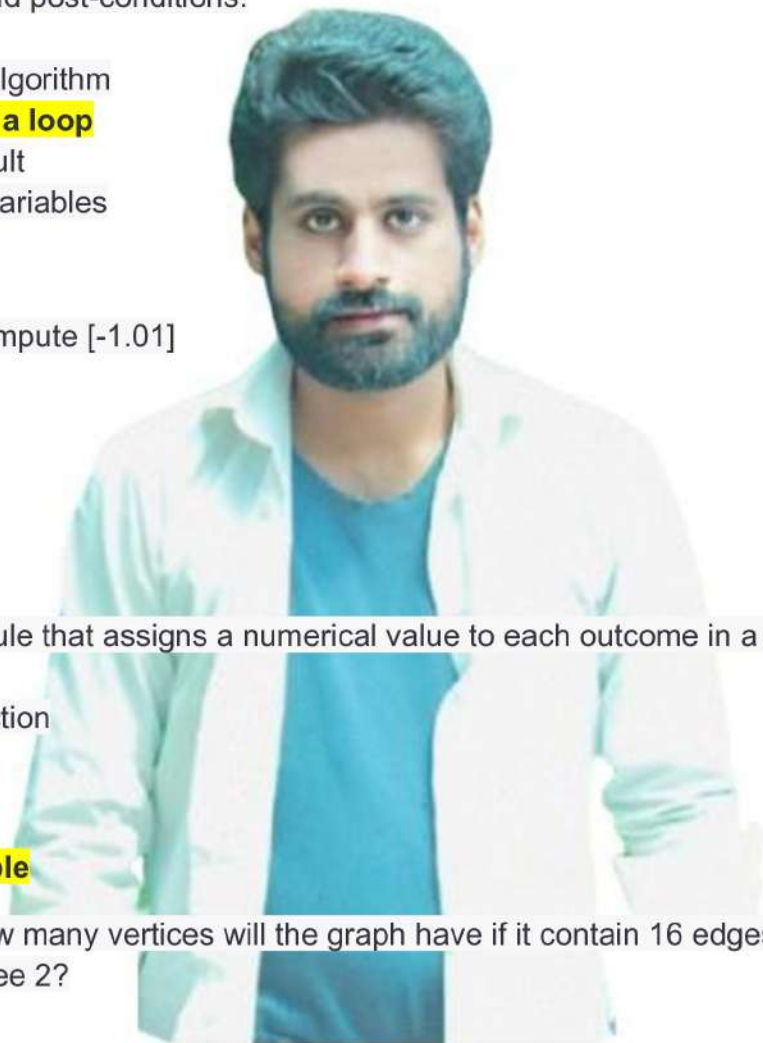
QUESTION:A rule that assigns a numerical value to each outcome in a sample space is called

- One to one function
- Conditional

- probability
- Random variable**

QUESTION:How many vertices will the graph have if it contain 16 edges and all vertices of degree 2?

- 14
- 16**
- 18
- 32



QUESTION:A line segment joining pair of vertices is called

Loop

Edge

Node

QUESTION:If a graph has any vertex of degree 3 then

It must have Euler circuit

It must have Hamiltonian circuit

It does not have Euler circuit

QUESTION:A matrix in which number of rows and columns are equal is called _____

Rectangular Matrix

Square Matrix

Null Matrix

Row Matrix.

QUESTION:If the transpose of any square matrix is equal to the matrix itself then it is called

Additive Inverse

Hermitian Matrix

Symmetric Matrix

Singular Matrix

QUESTION:On the set of graphs, the graph isomorphism is _____

Isomorphic Invariant

Equivalence relation

Irreflexive relation

Anti-Symmetric relation

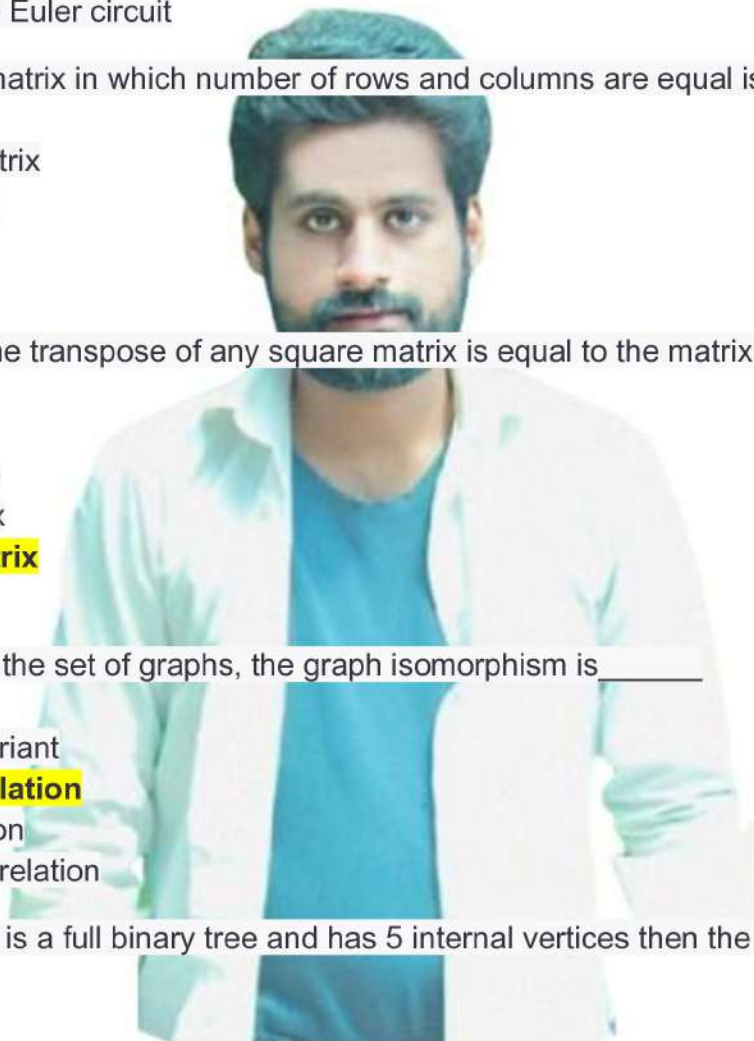
QUESTION:If T is a full binary tree and has 5 internal vertices then the total vertices of T are

11

12

13

10



QUESTION:If T is a full binary tree and has 5 internal vertices then the total vertices of T are

.

11

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QUESTION:A sub-graph of a graph G that contains every vertex of G is a tree and specifically called

.

Trivial tree

Empty tree

Spanning tree

Forest

QUESTION:If a graph is a tree then

.

it has 2 spanning trees

it has only 1 spanning tree

it has atleast 1 spanning trees

it's not necessary to have a spanning tree

QUESTION:The set of even numbers is

.

finite set.

infinite set.

continuous set.

None of above mentioned.

QUESTION:Euler's formula for any connected planar simple graph is

.

$f=e-v$

$f=e+v+2$

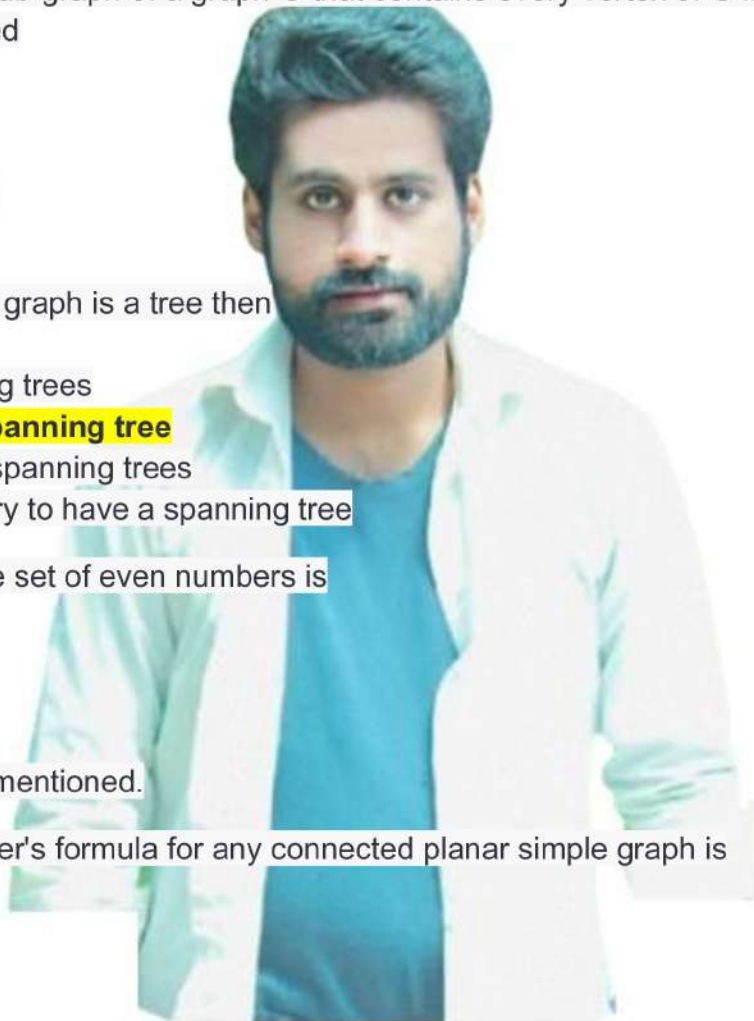
$f=e-v-2$

$f=e-v+2$

QUESTION:A vertex of degree greater than 1 in a tree is called

.

Branch vertex



Terminal vertex

Ancestor

Forest

QUESTION:A vertex of degree 1 in a tree is called a

.

Internal Vertex

Ancestor

Forest

Terminal vertex

QUESTION:Common difference of the sequence 14, 17, 20, 23,

.

5

1

2

3

QUESTION:Let f is defined recursively by $f(0)=5$, $f(n+1)=4 f(n)+2$ then find $f(1)$.

10

8

21

22

QUESTION: $1! =$ _____

.

10

0

1

undefined

QUESTION:The sum of two irrational numbers must be _____

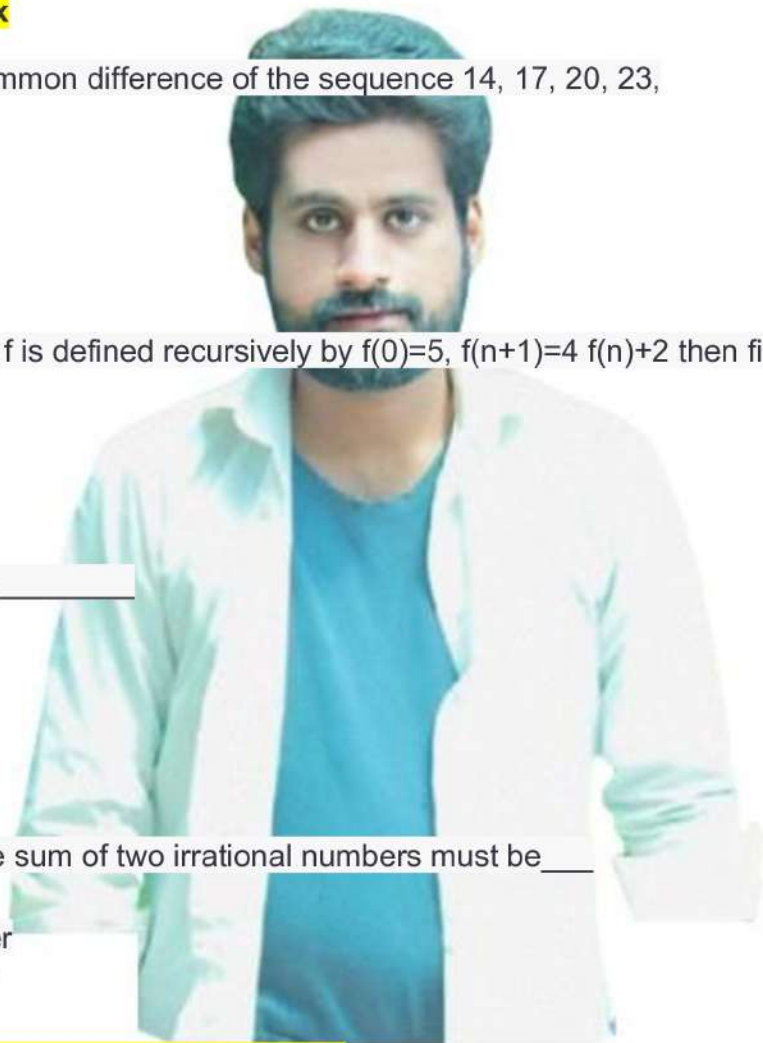
.

irrational number

rational number

integer

depends on numbers which are added



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