

# Program

```
import java.util.*;
public class Main
{
    public static void main(String[] args){
        Scanner s=new Scanner(System.in);
        System.out.println("enter your name");
        String name=s.nextLine();
        System.out.println("enter your roll no:");
        int rollno= s.nextInt();
        System.out.println("enter total no. of subjects:");
        int n= s.nextInt();
        int[] marks= new int[n];
        int total=0;
        double avg;
        System.out.println("enter marks of each subject out of 100:");
        for(int i=0;i<n;i++)
        {
            marks[i]=s.nextInt();
            total=total+marks[i];
        }
        avg=total/n;
        System.out.println("total marks:"+total);
        System.out.println("average marks:"+avg);
    }
}
```

# Output

```
enter your name
sanjeev kavara
enter your roll no:
201CS313
Exception in thread "main" java.util.InputMismatchException
        at java.util.Scanner.throwFor(Scanner.java:864)
        at java.util.Scanner.next(Scanner.java:1485)
        at java.util.Scanner.nextInt(Scanner.java:2117)
        at java.util.Scanner.nextInt(Scanner.java:2076)
        at Main.main(Main.java:18)

...
...Program finished with exit code 1
Press ENTER to exit console.
```

# Program

```
import java.util.Arrays;

class Main
{
    public static void main(String[] args)
    {
        int[] inp={20,24,33,43,54,65,79,0,82,11};
        int n=inp.length;
        int[]a=new int[(n+1)/2];
        int[]b=new int[n-a.length];

        for(int i=0;i<n;i++)
        {
            if(i<a.length)
                a[i]=inp[i];
            else
                b[i-a.length]=inp[i];
        }
        System.out.println(Arrays.toString(a));
        System.out.println(Arrays.toString(b));
    }
}
```

# Output

```
[20, 24, 33, 43, 54]
[65, 79, 0, 82, 11]

...Program finished with exit code 0
Press ENTER to exit console.█
```

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Questions

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Red	Green ✓	Red	Green ✓				

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Figure 1 Figure 2



Figure 3



From the given figures, you may differentiate procedure oriented programming and object oriented programming with its characteristics.



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**Question 1**

Incorrect

Mark 0 out of 1

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Figure 1 represent which type of programming paradigm?

(1 Mark-[U/C,2])

- A. Object oriented programming ✗
- B. Functional programming
- C. Procedure oriented programming
- D. Logical programming

The correct answer is: Procedure oriented programming

**Question 2**

Correct

Mark 1 out of 1

[Flag question](#)

From the figure 1, which of the following is a drawback with procedure oriented programming?

(1 Mark-[U/C,2])

- A. Related functions and data
- B. Unrestricted access to global data ✓
- C. Access to local data
- D. Denied access to global data

The correct answer is: Unrestricted access to global data

**Question 3**

Incorrect

Mark 0 out of 1

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Figure 3 represents which of the following OOP characteristics?

(1 Mark-[U/C],2)

- A. Encapsulation
- B. Data hiding
- C. Polymorphism



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The correct answer is: Unrestricted access to global data

Question 3

Incorrect

Mark 0 out of 1

Flag question

Figure 3 represents which of the following OOP characteristics?

(1 Mark-[U/C],2)

- A. Encapsulation
- B. Data hiding
- C. Polymorphism
- D. Inheritance



The correct answer is: Polymorphism

Question 4

Correct

Mark 1 out of 1

Flag question

```
class student
{
private:
int rollno;
string name;
public:
void getdata(int a, string b)
{
rollno=a; name=b;
}
void putdata(void)
{
cout<<"Roll Number."<<rollno;
cout<<"Name."<<name;
}
};
```

Identify all the data members in the code given above.



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The correct answer is: Polymorphism

**Question 4**

Correct

Mark 1 out of 1

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```
class student
{
private:
int rollno;
string name;
public:
void getdata(int a, string b)
{
rollno=a; name=b;
}
void putdata(void)
{
cout<<"Roll Number."<<rollno;
cout<<"Name."<<name;
}
};
```

**Identify all the data members in the code given above.**

(1 Mark-[An/C,1])

- A. a,b
- B. name,rollno
- C. rollno
- D. getdata, putdata



The correct answer is: name,rollno

**Question 5**

class Student



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The correct answer is: name,rollno

Question 5  
Correct  
Mark 1 out of 1  
[Flag question](#)

```
class Student
{
    string name;
    int marks;
public:
    void getName()
    {
        cin >> name;
    }
    void getMarks()
    {
        cin >> marks;
    }
    void displayInfo()
    {
        cout << "Name : " << name << endl;
        cout << "Marks : " << marks << endl;
    }
};
```

Identify all the member functions used in the above code.

(1 Mark-[U/C,1])

A. name, marks  
 B. name, marks, getName  
 C. getName, getMarks  
 D. getName, getMarks, displayInfo

The correct answer is: getName, getMarks, displayInfo

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**Question 6**

Correct

Mark 2 out of 2

Flag question

```
class student{  
private:  
int rollno;  
string name;  
public:  
void getdata(int a, string b)  
{  
rollno=a; name=b;  
}  
void putdata(void)  
{  
cout<<"Roll Number:"<<rollno;  
cout<<"Name:"<<name;  
};  
int main()  
{ _____;  
_____;  
_____;  
return 0;  
}
```

**Fill the empty lines to get the output: 32, Radhai.**

(2 Marks-[An/C,2])

- A. student s1; s1.getdata(); s1.putdata(32, "Radhai");
- B. student s1; s1.getdata(32, "Radhai"); s1.putdata();
- C. stud s1; s1.getdata();
- D. student s; s.getdata();s.putdata();

The correct answer is: student s1; s1.getdata(32, "Radhai"); s1.putdata();



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The correct answer is: student s1; s1.getdata(32,"Radhai"); s1.putdata();

Question 7  
Correct  
Mark 2 out of 2  
[Flag question](#)

```
#include <iostream.h>
using namespace std;
class sports
{
public:
    string name;
    void printname()
    {
        cout << " Favourite sports: " << name;
    }
};
int main()
{
    sports obj1;
    obj1.name = "Hockey";
    obj1.printname();
    return 0;
}
```

What will be the output of the above code?

(2 Marks-[An/C,2])

- A. Favourite sports
- B. Error
- C. Favourite sports hockey
- D. Favourite sports: Hockey

The correct answer is: Favourite sports: Hockey

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```
int main() {
    sports obj1;
    obj1.name = "Hockey";
    obj1.printname();
    return 0;
}
```

What will be the output of the above code?

(2 Marks-[An/C,2])

- A. Favourite sports
- B. Error
- C. Favourite sports hockey
- D. Favourite sports: Hockey

The correct answer is: Favourite sports: Hockey

Question 8  
Correct  
Mark 1 out of 1  
[Flag question](#)

In figure 2, bake is the behaviour of the pizza object.

(1 Mark-[U/C,2])

Select one:

- True ✓
- False

The correct answer is 'True'.

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Information

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Specifiers	Within Same Class	In Derived Class	Outside the Class
Private	Yes	No	No
Protected	Yes	Yes	No
Public	Yes	Yes	Yes

## Questions

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Figure 1: Specifiers

From the given figure you can identify that, the specifiers set some restrictions on the data members and member functions based on their declarations inside the class or outside the class. Answer the below questions using the given figure.

Question 1

Correct

Mark 1 out of 1

 Flag question

\_\_\_\_\_ is used to implement an important feature of object oriented programming known as data hiding. (1 Mark-[U/C,1])

- A. Access Specifiers
- B. Inheritance
- C. Constructors
- D. Polymorphism



The correct answer is: Access Specifiers

Question 2

Correct

Mark 2 out of 2

 Flag question

```
#include <iostream>
using namespace std;
class Circle
{
```

No more attempts are allowed



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Question 2

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
public:
    double radius;
    double compute_Area
    {
        return 3.14*radius*radius;
    };
    int main
    {
        Circle C;
        C.radius=5.5;
        cout<<"Radius is:"<<C.radius<<endl;
        cout<<"Area is:"<<C. compute_Area ;
        return 0;
    }
}
```

Predict the output of the above program. (2 Mark-[Ap/P,2])

- A. Compile time error
- B. Radius is: 94.985  
Area is: 5.5
- C. Area is: 94.985  
Radius is: 5.5
- D. Radius is: 5.5  
Area is: 94.985



The correct answer is: Radius is: 5.5  
Area is: 94.985

No more attempts are allowed



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 D. Radius is: 94.985

Area is: 5.5

 C. Area is: 94.985

Radius is: 5.5

 D. Radius is: 5.5

Area is: 94.985



The correct answer is: Radius is: 5.5

Area is: 94.985

**Question 3**

Correct

Mark 1 out of 1

Flag question

The class member declared as private can be accessed by the functions outside the class. (1 Mark-[U/C,1])

Select one:

 True False

The correct answer is 'False'.

**Question 4**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
private:
    double radius;
public:
    double compute_Area
    {
        return 3.14*radius*radius;
    };
    int main
}
```

No more attempts are allowed



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**Question 4**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
private:
    double radius;
public:
    double compute_Area
    {
        return 3.14*radius*radius;
    }
    int main
    {
        Circle C;
        C.radius=5.5;
        cout<<"Radius is:"<<C.radius;
        cout<<"Area is:"<<C.compute_Area ;
        return 0;
    }
}
```

Predict the output of the above program. (2 Mark-[Ap/P],2)

- A. Radius is: 5.5  
Area is: 94.985
- B. Area is: 94.985  
Radius is: 5.5
- C. Radius is: 94.985  
Area is: 5.5
- D. Compile time error



The correct answer is: Compile time error

No more attempts are allowed



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Area is: 5.5

D. Compile time error

The correct answer is: Compile time error

**Question 5**  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

```
#include <iostream>
using namespace std;
class Demo
{ public:
    static int ABC;
};

_____ // Fill the code here

int Demo :: ABC =10;
int main()
{ cout<<"\nValue of ABC: "<<Demo::ABC;
return 0;
}

Fill the code in the above program to achieve the below given output.

Value of ABC: 10 (1 Mark-[Ap/P2])
```

A. int Demo(ABC =10);  
B. ABC =10;  
C. int :: ABC =10;  
D. int Demo :: ABC =10;

The correct answer is: int Demo :: ABC =10;

**Question 6**  
Correct

Identify the correct method to define a static data member. (1 Mark-[U/C,1])

No more attempts are allowed

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The correct answer is: int Demo :: ABC =10;

Question 6

Correct

Mark 1 out of 1

Flag question

Identify the correct method to define a static data member. (1 Mark-[U/C,1])

- A. data\_type class\_name , member\_name =value;
- B. data\_type :: member\_name =value;
- C. member\_name =value;
- D. data\_type class\_name :: member\_name =value;



The correct answer is: data\_type class\_name :: member\_name =value;

Question 7

Correct

Mark 1 out of 1

Flag question

Which among the following can be used together in a single class? i) Only private

ii) Private and Protected together

iii) Private and Public together (1 Marks-[An/C,2])

- A. (ii) and (iii) alone can be used in a class
- B. All the three can be used in a class
- C. (i) and (ii) alone can be used in a class
- D. (i) alone can be used in a class



The correct answer is: All the three can be used in a class

Question 8

Correct

Mark 1 out of 1

Flag question

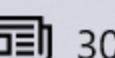
Identify the access specifier which is used when no access specifier is used with a member of class in C++. (1 Marks-[An/C,1])

- A. Protected
- B. Both public and Private
- C. Public
- D. Private

No more attempts are allowed



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The correct answer is: data\_type class\_name :: member\_name =value;

**Question 7**  
Correct  
Mark 1 out of 1  
[Flag question](#)

**Which among the following can be used together in a single class?** i) Only private  
ii) Private and Protected together  
iii) Private and Public together (1 Marks-[An/C,2])

A. (ii) and (iii) alone can be used in a class  
 B. All the three can be used in a class  
 C. (i) and (ii) alone can be used in a class  
 D. (i) alone can be used in a class

The correct answer is: All the three can be used in a class

**Question 8**  
Correct  
Mark 1 out of 1  
[Flag question](#)

**Identify the access specifier which is used when no access specifier is used with a member of class in C++.** (1 Marks-[An/C,1])

A. Protected  
 B. Both public and Private  
 C. Public  
 D. Private

The correct answer is: Private

[Finish review](#)

18CS306-Programming Using CPP-01.10.2021-FA3: Attempt review - Google Chrome

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Information

Mr John used a special 'MEMBER FUNCTION' having the same name as that of its class. It is used to initialize some valid values to the data members of an object. It is executed automatically whenever an object of a class is created. The only restriction that applies to the special member function is that it must not have a return type or void. It is because the special member function is automatically called by the compiler and it is normally used to initialize values.

Answer the below questions using the given scenario.

Question 1  Mark 1 out of 1

Identify the function which gets called automatically when an object is being created. (1 Mark-[U/C,1])

A. Main  
 B. Constructor  
 C. Virtual Function  
 D. Destructors

The correct answer is: Constructor

Question 2  Mark 1 out of 1

Destructor is a member function which destructs or deletes an object. Pick the right destructor for the TollBooth class. (1 Mark-[An/C,1])

A. TollBooth()  
 B. ~TollBooth()  
 C. TollBooth()  
 D. \_TollBooth()

The correct answer is: ~TollBooth()

Question 3  Mark 1 out of 1

A copy constructor is a member function which initializes an object using another object of the same class. The main program for tollbooth can be written as follows

Class tollbooth

No more attempts are allowed

Questions

1 2 3 4 5 6 7 8

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**Question 3**

Correct

Mark 1 out of 1

Flag question

The correct answer is: ~TollBooth()

A copy constructor is a member function which initializes an object using another object of the same class. The main program for tollbooth can be written as follows

```
Class tollbooth
{ tollbooth(const tollbooth b2) {
    x=b2.x
}
}

int main()
{
char x;
tollBooth d;
_____ // Fill the code here
}
```

Find the best option from below, for the missing line which can be used to declare the copy constructor in main. (1 Mark-[Ap/P,2])

- A. tollbooth b1(B)
- B. tollbooth b1 \*B
- C. tollbooth B
- D. Tollbooth b1(B)



The correct answer is:  
tollbooth b1(B)

**Question 4**

Correct

The C++ program allows to use more than one destructor in a class. (1 Mark-[U/C,1])

Select one:

No more attempts are allowed



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**Question 4**

Correct

Mark 1 out of 1

Flag question

The C++ program allows to use more than one destructor in a class. (1 Mark-[U/C,1])

Select one:

- True
- False ✓

The correct answer is 'False'.

**Question 5**

Correct

Mark 2 out of 2

Flag question

State whether the following statements about the constructor are True or False.

- i) Constructors should be declared in the private section.  
ii) Constructors are invoked automatically when the objects are created.  
(2 Mark-[Ap/P],2)

- A. (i) is true  
(ii) is false
- B. (i) is false  
(ii) is false
- C. (i) is true  
(ii) is true
- D. (i) is false  
(ii) is true ✓

The correct answer is: (i) is false  
(ii) is true

**Question 6**

Correct

Mark 1 out of 1

Object can also be passed to a function as an argument via \_\_\_\_\_.

(1 Mark-[U/C,1])

No more attempts are allowed



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## Question 6

Correct

Mark 1 out of 1

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Object can also be passed to a function as an argument via \_\_\_\_\_.

(1 Mark-[U/C,1])

- A. pass by array
- B. pass by parameter & pass by array
- C. pass by pointer
- D. pass by value & pass by reference



The correct answer is: pass by value &amp; pass by reference

## Question 7

Correct

Mark 2 out of 2

[Flag question](#)

```
#include <iostream>
using namespace std;
class construct
{
public:
int a, b;
_____ // Fill the code here
_____ // Fill the code here
_____ // Fill the code here
};
int main()
{
construct c;
cout << "a: " << c.a << endl
<< "b: " << c.b;
return 1;
}
```

Output:

No more attempts are allowed



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Mark 2 out of 2

Flag question

```
class construct
{
public:
int a, b;
_____ // Fill the code here
_____ // Fill the code here
_____ // Fill the code here
};

int main()
{
construct c;
cout << "a: " << c.a << endl
<< "b: " << c.b;
return 1;
}
```

Output:

a:10  
b:20

Fill the missing lines in above code to achieve the given output. (2 Mark-[Ap/P,2])

- A. display
- { a = 10;  
b = 20; }
- B. show
- { a = 10;  
b = 20; }
- C. ~construct { a=10; b=20; }
- D. construct  
{ a = 10;  
b = 20; }

✓

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- A. display
- B. show
- C. ~construct
- D. construct

The correct answer is: construct  
{ a = 10;  
b = 20; }

Question 8  
Correct  
Mark 1 out of 1  
 Flag question

What happens to the code if Mr. John forgets to define a constructor inside a class? (1 Marks-[An/C,2])

- A. Segmentation fault
- B. Objects are not created properly
- C. Compiler provides a default constructor to avoid faults/errors
- D. Error occurs

The correct answer is: Compiler provides a default constructor to avoid faults/errors

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Figure 1 fruits array Figure 2 cake array

Figure 1 and 2 depicts the concept of arrays in object oriented programming. Answer the following questions by considering the figures given here.

Question 1  
Incorrect  
Mark 0 out of 1  
Flag question

As shown in figure 1 & 2, Haemoglobin level of six people is also stored in the form of arrays. Complete the code to print six the haemoglobin levels entered by the user. (1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
int main()
{
    int hb[6];
    for(_____) // #1
    {
        cout << "Enter an HB level: ";
        cin >> hb[j];
    }
}
```



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Question 1  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

As shown in figure 1 & 2, Haemoglobin level of six people is also stored in the form of arrays. Complete the code to print six the haemoglobin levels entered by the user. (1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
int main()
{
    int hb[6];
    for(_____) // #1
    {
        cout << "Enter an HB level: ";
        cin >> hb[j];
    }
    for(_____) // #2
    cout << "You entered " << hb[j] << endl;
    return 0;
}
```

A. #1 int j=6;j>0;j++ & #2 int i=0;i<5;i++  
 B. #1& #2 int i=0;i<6;i++  
 C. #1 int i=0;i<=5;i++ & #2 int j=0;j<6;j++  
 D. #1& #2 int i=0;i<=6;i--;

The correct answer is: #1& #2 int i=0;i<6;i++

Question 2  
Incorrect

The index number of the last element of an array with 9 elements is (1 Mark-[An/C 2])

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- A. #1 int j=6;j>0;j++ & #2 int i=0;i<5;i++
- B. #1& #2 int i=0;i<6;j++
- C. #1 int i=0;j<=5;j++ & #2 int j=0;j<6;j++
- D. #1& #2 int i=0;i<=6;j--;

X

The correct answer is: #1& #2 int i=0;i<6;j++

**Question 2**

Incorrect

Mark 0 out of 1

[Flag question](#)

The index number of the last element of an array with 9 elements is

(1 Mark-[An/C,2])

- A. 9
- B. 0
- C. 8
- D. 7

X

The correct answer is: 8

**Question 3**

Correct

Mark 1 out of 1

[Flag question](#)

The seventh element stored in the array named fruits can be accessed by

(1 Mark-[An/C,2])

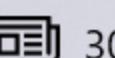
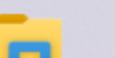
- A. fruits[7];
- B. Fruits[];
- C. fruits[6];
- D. fruits(7);

✓

The correct answer is: fruits[6];



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question

B. Fruits[];  
 C. fruits[6];  
 D. fruits(7); ✓

The correct answer is: fruits[6];

**Question 4**  
Correct  
Mark 2 out of 2  
 Flag question

What will be the output of the following C++ code? (2 Marks-[Ap/C,2])

```
#include<iostream>
using namespace std;
int array1[] = {1200, 200, 2300, 1230, 1543};
int array2[] = {12, 14, 16, 18, 20};
int temp, result = 0;
int main(){
    for (temp = 0; temp < 5; temp++){
        result += array1[temp];
    }
    for (temp = 0; temp < 4; temp++){
        result += array2[temp];
    }
    cout << result;
    return 0;
}
```

A. 6533 ✓  
 B. 6531  
 C. 6553  
 D. 6522

The correct answer is: 6533

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- C. 6553
- D. 6522

The correct answer is: 6533

**Question 5**

Incorrect

Mark 0 out of 1

[Flag question](#)

Complete the line1 in the program given below to print the average.

(1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
// function declaration:
```

```
_____ //Line 1
```

```
int main ()
{
    int balance[5] = {1000, 2, 3, 17, 50};
    double avg;
    avg = getAverage( balance, 5 );
    cout << "Average value is: " << avg << endl;
    return 0;
}
```

- A. **double getAverage(int arr[], int size);**
- B. **int getAverage(float arr[], int size);**
- C. **int getAverage(float arr[], float size);**
- D. **double getaverage(int arr[],float size);**



The correct answer is:

**double getAverage(int arr[], int size);**

**Question 6**

Correct

Create object for the Animals class with the concept of array of objects.

(1 Mark-[U/C,2])



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D. double getaverage(int arr[],float size); X

The correct answer is:  
double getAverage(int arr[], int size);

Question 6

Correct

Mark 1 out of 1

Flag question

Create object for the Animals class with the concept of array of objects.

(1 Mark-[U/C,2])

```
class Animals
{
    char name[50];
    char species[10];
    void move();
    void eat();
};
```

- A. Animals a[10]; ✓
- B. Animals a1;
- C. Animal a[20];
- D. Animals a[];

The correct answer is: Animals a[10];

Question 7

Correct

Mark 1 out of 1

Flag question

Find the output of the given code.

(1 Mark-[Ap/P,2])

```
#include<iostream.h>
using namespace std;
int a[ ]={1,2,3,4,5};
int i, result=0;
int main()
```

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The correct answer is: Animals a[10];

Question 7

Correct

Mark 1 out of 1

Flag question

**Find the output of the given code.**

(1 Mark-[Ap/P,2])

```
#include<iostream.h>
using namespace std;
int a[ ]={1,2,3,4,5};
int i, result=0;
int main()
{
    for (i=0;i<5;i++)
    {
        result+=a[i];
    }
    cout<<result;
    return 0;
}
```

- A. 10
- B. 6
- C. 15
- D. 14



The correct answer is: 15

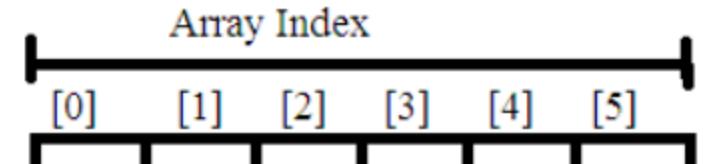
Question 8

Correct

Mark 1 out of 1

Flag question

**The size of the below given array is**



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- A. 10
- B. 6
- C. 15
- D. 14



The correct answer is: 15

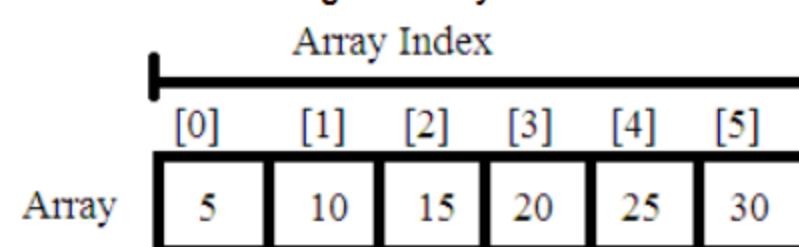
Question 8

Correct

Mark 1 out of 1

Flag question

**The size of the below given array is**



(1 Mark-[U/C,1])

- A. 6
- B. 5
- C. 7
- D. 4



The correct answer is: 6

Question 9

Correct

Mark 1 out of 1

Flag question

State true or false.

You can generate a pointer to the first element of an array by simply specifying the array name, without any index.

(1 Mark-[U/C,1])

Select one:

- True ✓



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Correct  
Mark 1 out of 1  
 Flag question

Array Index

Array

(1 Mark-[U/C,1])

A. 6 ✓  
B. 5  
C. 7  
D. 4

The correct answer is: 6

Question 9  
Correct  
Mark 1 out of 1  
 Flag question

State true or false.  
You can generate a pointer to the first element of an array by simply specifying the array name, without any index.

(1 Mark-[U/C,1])

Select one:

True ✓  
False

The correct answer is 'True'.

Finish review

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Information  
Flag question

Figure 1

Figure 1 shows one of the string handling functions in object oriented programming. Answer the following questions by considering the above figure.

Questions

1	2	3	4	5	6	7	8
✓	✓	✓	✓	✓	✓	✓	✓

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Finish review

Question 1  
Correct  
Mark 1 out of 1  
Flag question

Which of the following is used in Figure 1 to store character? (1 Mark-[U/C,1])

- A. int array
- B. double array
- C. string array
- D. char array

The correct answer is:  
**char array**

Question 2  
Correct  
Mark 1 out of 1  
Flag question

string str4(str1, 6, 6);  
The above statement comes under \_\_\_\_\_ type of initialization. (1 Mark-[An/C,2])

- A. Initialization by another string
- B. Initialization by part of another string
- C. Initialization by raw string

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Correct  
Mark 1 out of 1  
Flag question

(1 Mark-[U/C,1])

A. int array  
B. double array  
C. string array  
D. char array

The correct answer is:  
**char array**

Question 2  
Correct  
Mark 1 out of 1  
Flag question

string str4(str1, 6, 6);  
The above statement comes under \_\_\_\_\_ type of initialization.

(1 Mark-[An/C,2])

A. Initialization by another string  
B. Initialization by part of another string  
C. Initialization by raw string  
D. Initialization by character with number of occurrence

The correct answer is: Initialization by part of another string

Question 3  
Correct  
Mark 1 out of 1  
Flag question

What will be the output of the below line of code if str6="Welcome".

(1 Mark-[Ap/C,2])

char ch = str6.at(2);

A. c  
B. I  
C. el  
D. e

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The correct answer is: Initialization by part of another string

**Question 3**

Correct

Mark 1 out of 1

Flag question

What will be the output of the below line of code if str6="Welcome".

(1 Mark-[Ap/C,2])

```
char ch = str6.at(2);
```

- A. c
- B. I
- C. el
- D. e



The correct answer is: I

**Question 4**

Correct

Mark 1 out of 1

Flag question

In which of the following ways, function overloading can be achieved?

(1 Mark-[U/C,2])

- Same function name with different number of arguments
- Different function name with same number of arguments
- Same function name with different type of arguments
- Different function name with same type of arguments

- A. I,III
- B. I,II,III
- C. I only
- D. I,III,IV



The correct answer is: I,III

**Question 5**

Predict the output of following C++ program?



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## Question 5

Correct

Mark 2 out of 2

Flag question

Predict the output of following C++ program?

(2 Marks-[Ap/C,3])

```
include<iostream>
using namespace std;
class Test{
protected:
int x;
public:
Test (int i):x(i) { }
void fun() const { cout << "fun() const " << endl; }
void fun() { cout << "fun() " << endl; } };
int main()
{ Test t1 (10);
const Test t2 (20);
t1.fun();
t2.fun();
return 0; }
```

- A. Compiler error
- B. fun()  
fun() const
- C. fun() const  
fun() const
- D. fun() fun()



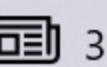
The correct answer is:  
**fun()**  
**fun() const**

## Question 6

#include &lt;iostream.h&gt;



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**Question 6**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream.h>
using namespace std;
int main() {
    string str1("first string");
    string str2(str1);
    string str3(5, '#');
    string str4(str1, 6, 6);
    cout << str1 << endl;
    cout << str2 << endl;
    cout << str3 << endl;
    cout << str4 << endl;
    return 0; }
```

Predict the output for the above code.

(2 Marks-[Ap/P,2])

- A. first string  
first string  
#####  
string
- B. First string  
#####  
First string first  
first
- C. First  
First string  
\$\$\$\$\$
- D. First string first  
#####  
string



The correct answer is: first string  
first string  
#####  
string

Question 7

Correct

Mark 1 out of 1

[Flag question](#)**Which function is used to obtain the character “D” stored at a specified location in Figure 1?**

(1 Marks-[Ap/P,2])

- A. location()
- B. at()
- C. find()
- D. search()



The correct answer is: at()

Question 8

Correct

Mark 1 out of 1

[Flag question](#)**Which of the following string handling operation is done in Figure 1?**

(1 Mark-[U/C,1])

- A. strcpy()
- B. strrev()
- C. strchr()
- D. strcat()



The correct answer is: strrev()

[Finish review](#)

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[60]

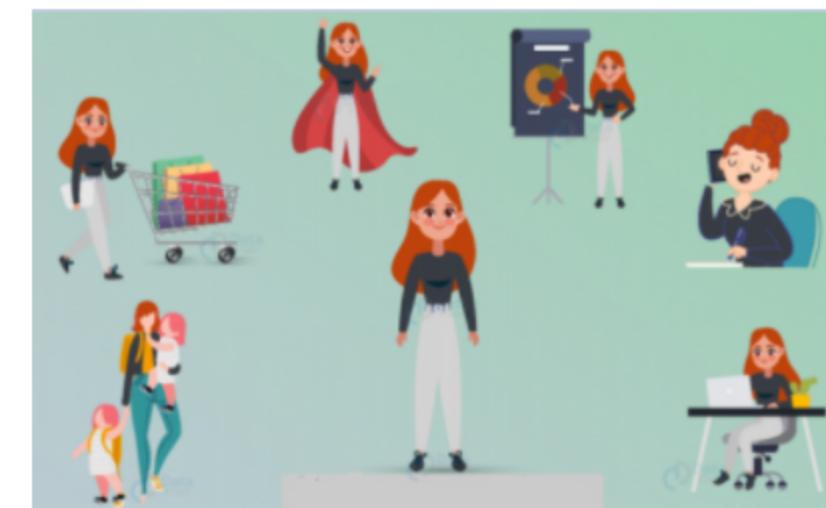


Figure 1

Figure 1 depicts the concept of polymorphism in object oriented programming. Answer the following questions by considering the above concept.

Total Time Remaining: 0:00:00

Question 1

Correct

Mark 2 out of 2

Flag question

[SO-1] [120]

Predict the output of the code given here.

(2 Marks-[An/C,2])

class A {

**Question 1**

Correct

Mark 2 out of 2

Flag question

**[SO-1] [120]**

Predict the output of the code given here.

(2 Marks-[An/C,2])

```
class A {  
    int i;  
    public:  
        A(int ii = 0) : i(ii) {}  
        void show() { cout << i << endl; } };  
class B {  
    int x;  
    public:  
        B(int xx) : x(xx) {}  
        operator A() const { return A(x); } ;  
    void g(A a) {  
        a.show(); }  
    int main()  
    { B b(10); g(b); g(20); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. 20 10
- B. 20 20
- C. 10 20
- D. 10 10



**Question 2**

Correct

Mark 1 out of 1

Flag question

**[SO-1] [60]**

Complete the line1 to get output as 10.

(1 Mark-[Ap/P,2])

```
class Test {  
private:  
int num;  
public:  
Test(): num(8){}  
void operator ++() {  
----- //Line1  
}  
void Print() {  
cout<<"The Count is: "<<num;  
}  
int main() {  
Test tt;  
++tt; tt.Print(); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. num=num+1;
- B. Num+2
- C. num++;

```
++tt; tt.Print(); return 0; }
```

Total Time Remaining: 0:00:00

- A. num=num+1;
- B. Num+2
- C. num++;
- D. num = num+2;



The correct answer is: num = num+2;

**Question 3**

Correct

Mark 1 out of 1

Flag question

**[SO-2] [60]**

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

Total Time Remaining: 0:00:00

- A. A operator[+](argument\_list){}
- B. int +(argument\_list){}

D. num = num+2;

The correct answer is: num = num+2;

**Question 3**

Correct

Mark 1 out of 1

Flag question

[SO-2] [60]

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

**Total Time Remaining: 0:00:00**

- A. A operator[+](argument\_list){}
- B. int +(argument\_list){}
- C. A operator+(argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

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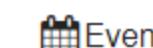
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- C. A operator+(argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

- A. ==
- B. =
- C. -=
- D. +=



The correct answer is: =

**Question 5**

Correct

Mark 2 out of 2

Flag question

[SO-3] [120]

Which operator should be overloaded in the following code to make the program error free?

(2 Marks-[An/C,2])

class Box{



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Mark 2 out of 2

Flag question

(2 Marks-[An/C,2])

```
class Box{  
    int capacity;  
    public:  
        Box(){  
        }  
        Box(double capacity){  
            this->capacity = capacity;  
        }  
        int main(int argc, char const *argv[]){  
            Box b1(10);  
            Box b2 = Box(14);  
            if(b1 == b2){ cout<<"Equal"; }  
            else{ cout<<"Not Equal"; }  
            return 0; }  
}
```

Total Time Remaining: 0:00:00

- A. =
- B. +
- C. ==
- D. ()



The correct answer is:

==

Question 6

Correct

Mark 1 out of 1

[Flag question](#)

[SO-3] [120]

Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count() : value(5) {}  
void operator ++ () {  
++value;  
}  
void display() {  
cout << value << endl; } };  
int main()  
{  
Count count1;  
++count1; count1.display(); return 0; }
```

Total Time Remaining: 0:00:00

- A. 7
- B. error
- C. 6
- D. 5



Question 7

Correct

Mark 1 out of 1

Flag question

**[SO-3] [120]****Predict the output.**

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
        cout<<"a: "<<a<<endl;  
    }  
    void operator.() {  
        cout<<"Objects are added\n"; } };  
  
int main(int argc, char const *argv[])  
{  
    A a1, a2;  
    return 0;  
}
```

Total Time Remaining: 0:00:00

- A. Error
- B. a
- C. a:Objects are added
- D. Objects are added



The correct answer is: Error

**Question 8**

Not answered

Marked out of 1

Flag question

**[SO-3] [60]**

State true or false.

Associativity and precedence of operators change in operator overloading.

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

Select one:

 True False

The correct answer is 'False'.

[Finish review](#)

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[60]

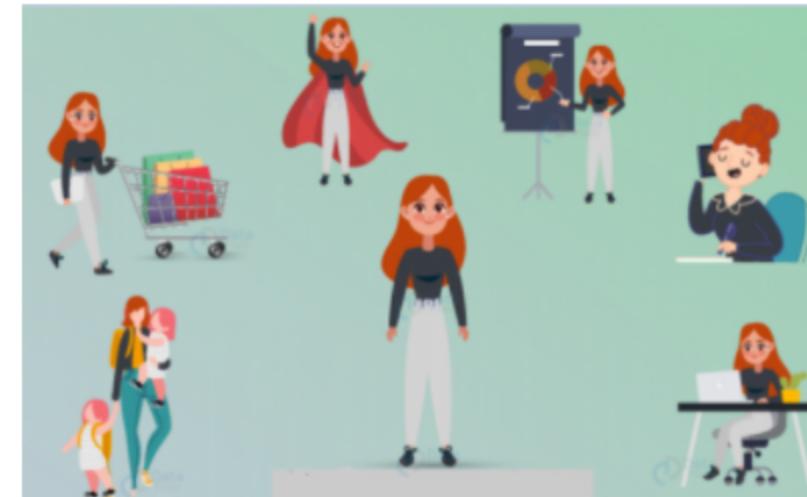


Figure 1

Figure 1 depicts the concept of polymorphism in object oriented programming. Answer the following questions by considering the above concept.

Total Time Remaining: 0:00:00

Questions

1	2	3	4	5	6	7	8
✓					✓		✓

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Question 1  
Correct  
Mark 2 out of 2  
Flag question

[SO-1] [120]  
Predict the output of the code given here.  
(2 Marks-[An/C,2])

```
class A {  
    int i;  
public:  
    A(int ii = 0) : i(ii) {}  
    void show() { cout << i << endl; } };  
class B {
```

**Question 1**

Correct

Mark 2 out of 2

Flag question

**[SO-1] [120]**

Predict the output of the code given here.

(2 Marks-[An/C,2])

```
class A {  
    int i;  
public:  
    A(int ii = 0) : i(ii) {}  
    void show() { cout << i << endl; } };  
class B {  
    int x;  
public:  
    B(int xx) : x(xx) {}  
    operator A() const { return A(x); } };  
void g(A a) {  
    a.show();}  
int main()  
{ B b(10); g(b); g(20); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. 10 10
- B. 20 20
- C. 10 20
- D. 20 10



Question 2

Incorrect

Mark 0 out of 2

Flag question

[SO-3] [120]

Which operator should be overloaded in the following code to make the program error free?

(2 Marks-[An/C,2])

```
class Box{  
    int capacity;  
public:  
    Box(){  
    }  
    Box(double capacity){  
        this->capacity = capacity;  
    }  
    int main(int argc, char const *argv[]){  
        Box b1(10);  
        Box b2 = Box(14);  
        if(b1 == b2){ cout<<"Equal"; }  
        else{ cout<<"Not Equal"; }  
        return 0; }  
}
```

Total Time Remaining: 0:00:00

- A. +
- B. ==
- C. ()
- D. =



Question 3

Correct

Mark 1 out of 1

Flag question

[SO-1] [60]

Complete the line1 to get output as 10.

(1 Mark-[Ap/P,2])

```
class Test {  
private:  
int num;  
public:  
Test(): num(8){}  
void operator ++() {  
----- //Line1  
}  
void Print()  
cout<<"The Count is: "<<num;  
};  
int main()  
Test tt;  
++tt; tt.Print(); return 0; }
```

Total Time Remaining: 0:00:00

- A. Num+2
- B. num = num+2;
- C. num=num+1;
- D. num++;



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D. num++;

The correct answer is: num = num+2;

**Question 4**  
[SO-3] [60]  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

State true or false.  
Associativity and precedence of operators change in operator overloading.

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

Select one:

True ×  
 False

The correct answer is 'False'.

**Question 5**  
[SO-3] [120]  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

Predict the output.

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
    }  
}
```

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Question 5  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

**[SO-3] [120]**  
Predict the output.

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
        cout<<"a: "<<a<<endl; }  
    void operator.() {  
        cout<<"Objects are added\n"; } };  
  
int main(int argc, char const *argv[])  
{  
A a1, a2;  
return 0;  
}
```

Total Time Remaining: 0:00:00

A. a:Objects are added X

B. a

C. Error

D. Objects are added

The correct answer is: Error

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- A. a:Objects are added
- B. a
- C. Error
- D. Objects are added



The correct answer is: Error

Question 6

Correct

Mark 1 out of 1

Flag question

[SO-2] [60]

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

Total Time Remaining: 0:00:00

- A. A operator+(argument\_list){}
- B. int +(argument\_list){}
- C. A operator[+](argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

Question 7

Incorrect

Mark 0 out of 1

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])



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18CS306-Programming Using CPP-26.11.2021-FA7: Attempt review - Google Chrome

moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1427493&cmid=51521

D. int [+](argument\_list){}

The correct answer is: A operator+(argument\_list){}

**Question 7** [SO-2] [60]  
Incorrect  
Mark 0 out of 1  
Flag question

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

A. =  
B. -=  
C. ==  
D. +=

The correct answer is: =

**Question 8** [SO-3] [120]  
Correct  
Mark 1 out of 1  
Flag question

Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count(): value(5);
```

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The correct answer is: =

**Question 8**  
Correct  
Mark 1 out of 1  
 Flag question

[SO-3] [120]  
Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count() : value(5) {}  
void operator ++ () {  
++value;  
}  
void display() {  
cout << value << endl; } };  
int main() {  
Count count1;  
++count1; count1.display(); return 0; }
```

Total Time Remaining: 0:00:00

A. 6   
 B. error  
 C. 7  
 D. 5

The correct answer is: 6

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18CS306-Programming Using CPP-03.12.2021-FA8: Attempt review - Google Chrome

moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1446276&cmid=52131

```
[150]
#include <iostream>

using namespace std;
// Base class Shape
class Shape {
public:
void setWidth(int w) {
width = w;
}
void setHeight(int h) {
height = h;
}
protected:
int width;
int height;
};
// Base class PaintCost
class PaintCost {
public:
int getCost(int area) {
return area * 70;
}
};
// Derived class
public:
int getArea() {
return (width * height);
}
int main(void) {
Rectangle Rect;
int area;
Rect.setWidth(5);
Rect.setHeight(7);
}
```

Finish review

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```
height = h;
}
protected:
int width;
int height;
};

// Base class PaintCost
class PaintCost {
public:
int getCost(int area) {
return area * 70;
}
};

// Derived class
public:
int getArea() {
return (width * height);
}
};

int main(void) {
Rectangle Rect;
int area;
Rect.setWidth(5);
Rect.setHeight(7);
area = Rect.getArea();
// Print the area of the object.
cout << "Total area: " << Rect .getArea() << endl;
// Print the total cost of painting
cout << "Total paint cost: $" << Rect .getCost(area) << endl;
return 0;
}
```

Question 1  
Incorrect

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```
// Print the total cost of painting  
cout << "Total paint cost: $" << Rect .getCost(area) << endl;  
return 0;  
}
```

Question 1  
Incorrect  
Mark 0 out of 2  
 Flag question

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Total Time Remaining: 0:00:00

[102] [SO-1] [120]

Consider the code and find the answer

```
class ProtectedDerived: .....Base {  
    // x is protected  
    // y is protected  
    // z is not accessible from ProtectedDerived (2 Mark- [AN/C, 2])
```

Select one:

- A. Public
- B. Base Class
- C. Protected
- D. Private



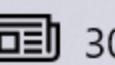
The correct answer is:  
Protected

Question 2

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18CS306-Programming Using CPP-03.12.2021-FA8: Attempt review - Google Chrome

moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1446276&cmid=52131

Protected

Question 2  
Correct  
Mark 2 out of 2  
 Flag question

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Total Time Remaining: 0:00:00

[104] [SO-2] [120]  
Consider the given multiple inheritance program and write the  
// Derived class

```
// Derived class
public:
int getArea() {
return (width * height);
}
}; (2 Mark- [U/C,2])
```

Select one:

- A. Class child: public father , public Mother
- B. Class Rectangle: public base , public paintcost
- C. Class Rectangle: public Shape, public paintcost
- D. Class derived : public base1, public base2

The correct answer is:  
Class Rectangle: public Shape, public paintcost

Question 3  
Correct

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C. Class Rectangle: public Shape, public paintcost  
D. Class derived : public base1, public base2

The correct answer is:  
Class Rectangle: public Shape, public paintcost

**Question 3**  
Correct  
Mark 1 out of 1  
Flag question

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**Total Time Remaining: 0:00:00**

[105] [SO-3] [60]  
public inheritance makes public members of the base class public in the derived class, and the protected members of the base class remain protected in the derived class.  
(1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

**Question 4**  
Correct  
Mark 1 out of 1  
Flag question

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(1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

Question 4  
Correct  
Mark 1 out of 1  
Flag question

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Total Time Remaining: 0:00:00

[106] [SO-3] [60]  
class PublicDerived : public Base {  
public:  
// function to access protected member from Base  
int getProt() {  
return prot;  
}  
};

However, prot is accessible to PublicDerived due to public inheritance. So, getProt() can access the protected variable from within PublicDerived. (1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

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The correct answer is 'True'.

**Question 5**  
Incorrect  
Mark 0 out of 2  
 Flag question

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**Total Time Remaining: 0:00:00**

[101] [SO-1] [120]  
Consider the following code and identify the correct way of representing the derived class with protected inheritance

```
// Derived class
class Rectangle: public Shape {
public:
    int getArea() {
        return (width * height);
    }
}; (2 Mark- [AN/C, 2])
```

Select one:

- A. class protectedRectangle: protected Shape
- B. class PrivateRectangle: protected Shape
- C. class protectedRectangle: public Shape
- D. class Rectangle: protected Shape

The correct answer is:  
class protectedRectangle: protected Shape

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The correct answer is:  
class protectedRectangle: protected Shape

Question 6

Correct

Mark 2 out of 2

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Total Time Remaining: 0:00:00

[104] [SO-2] [120]

Consider the given multiple inheritance program and write the

// Derived class

```
_____ {  
public:  
int getArea() {  
return (width * height);  
}  
}; (2 Mark- [U/C,2])
```

Select one:

- A. Class child: public father , public Mother
- B. Class derived : public base1, public base2
- C. Class Rectangle: public base , public paintcost
- D. Class Rectangle: public Shape, public paintcost



The correct answer is:  
Class Rectangle: public Shape, public paintcost



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Information  
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[60]  
Radha and Krishna along with their daughter Heera lived in a house at Coimbatore. Heera's uncle who was in abroad, sent a birthday gift to Heera. Gift reached Heera before her birthday. This happens because of the exact address mentioned by Heera's uncle while sending the gift.  
With the above scenario, answer the following questions.

Questions  
1 2 3 4 5 6 7  
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Finish review

Question 1  
Correct  
Mark 1 out of 1  
Flag question

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Total Time Remaining: 0:00:00

[101] [SO1] [120]  
What will be the output of the below code?  
(1 Mark-[An/C,2])

```
#include <iostream>
using namespace std;
int main () {
    int heera= 1000;
    int *heeaddr;
    heeaddr = &heera;
    cout << "Value of variable heera: ";
    cout << heera << endl;
```

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18CS306-Programming Using CPP-15.12.2021-FA10: Attempt review - Google Chrome

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[101] [SO1] [120]  
What will be the output of the below code?

(1 Mark-[An/C,2])

```
#include <iostream>
using namespace std;
int main () {
    int heera= 1000;
    int *heeeaddr;
    heeeaddr = &heera;
    cout << "Value of variable heera: ";
    cout << heera << endl;
    cout << "Address stored in heeaddr variable: ";
    cout << heeeaddr << endl;
    cout << "Value of *heeeaddr variable: ";
    cout << *heeeaddr << endl;
    return 0;
}
```

Select one:

- A. Value of variable heera: 1000  
Address stored in heeaddr variable: 0acf0126b  
Value of \*heeeaddr variable: 200
- B. Value of variable heera: 0acf0126b  
Address stored in heeaddr variable:1000  
Value of \*heeeaddr variable: 10000
- C. Value of variable heera: 100  
Address stored in heeaddr variable:1000  
Value of \*heeeaddr variable: 200
- D. Value of variable heera: 1000  
Address stored in heeaddr variable: 0acf0126b  
Value of \*heeeaddr variable: 1000

✓

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[104] [SO2] [120]  
Complete the given code to achieve the output "X=25".

(2 Marks-[An/C,3])

```
#include<iostream>
using namespace std;
class Test
{
private:
int x;
public:
void setX (int x)
{
_____; // #1
}
void print() { cout << "x = " << x << endl; }
};
int main()
{
Test obj;
int x = 25;
_____; // #2
obj.print();
return 0;
}
```

Select one:

A. #1: this->X=X;  
#2: obj.setx(X);

B. #1: this->x=x;  
#2: obj.setX(x);

C. #1: X=x;

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```
int main()
{
    Test obj;
    int x = 25;
    _____; //#
    obj.print();
    return 0;
}
```

Select one

- A. #1:this->X=X;  
#2: obj.setx(X)
  - B. #1: this->x=x;  
#2: obj.setX(x)
  - C. #1: X=x;  
#2: obj.setX(X)
  - D. #1:this.x=X;  
#2: obj.setx(X)

The correct answer is

```
#1: this->x=x;  
#2: obj.setX(x)
```

### Question 3

Correct

Mark 1 out of 1

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#2: obj.setX(x);

Question 3  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[105] [SO3] [60]  
Which of the following operator is used to access the public member of a class using object and to access the same using object pointer respectively?

(1 Mark-[U/C,2])

Select one:

- A. .->,dot
- B. dot,->
- C. ,->
- D. .->,

The correct answer is:  
dot,->

Question 4  
Correct  
Mark 1 out of 1  
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Question 4  
Correct  
Mark 1 out of  
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Total Time Remaining: 0:00:00

[107] [SO3] [60]

Predict the output for the below code

(1 Mark-[An/C,2])

```
class A
{
public:
int a;
};

class B:public A
{
public:
int b;
};

main()
{
A *ptr;
B b1;
ptr=&b1;
ptr->b=25;
cout<<ptr->b;
}
```

Select one

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[107] [SO3] [60]  
Predict the output for the below code.

(1 Mark-[An/C,2])

```
class A
{
public:
int a;
};

class B:public A
{
public:
int b;
};

main()
{
A *ptr;
B b1;
ptr=&b1;
ptr->b=25;
cout<<ptr->b;
}
```

Select one:

A. 20  
 B. 25  
 C. Error  
 D. F3B3980B

The correct answer is:  
Error

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Error

**Question 5**  
Correct  
Mark 1 out of 1  
 Flag question

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**Total Time Remaining: 0:00:00**

[103] [SO2] [60]  
this' pointer is passed explicitly when member functions are called.

(1 Mark-[U/C,1])

Select one:

True

False ✓

The correct answer is 'False'.

**Question 6**  
Correct  
Mark 2 out of 2  
 Flag question

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**Total Time Remaining: 0:00:00**

[102] [SO1] [120]

What will be the output of the following program?

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The correct answer is 'False'.

**Question 6**  
Correct  
Mark 2 out of 2  
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**Total Time Remaining: 0:00:00**

[102] [SO1] [120]  
What will be the output of the following program?

(2 Marks-[An/C,3])

```
#include <iostream>
using namespace std;
int main()
{
    int gift[] = { 4, 5, 6, 7 };
    int* heeaddr = (gift + 1);
    cout << *gift + 11;
    return 0;
}
```

Select one:

A. 15 

B. 13

C. 14

D. 12

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Question 7  
Correct  
Mark 2 out of 2  
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Total Time Remaining: 0:00:00

[106] [SO1] [120]  
Predict the output of the following code.

(2 Marks-[An/C,2])

```
#include <iostream.h>
class B
{
public:
int x;
void display ()
{
cout<<"X="<<x;
}
};
class D: public B
{
public:
int y;
void display ();
{
cout<<"X="<<x;
cout<<"Y="<<y;
}
};
int main ()
```

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```
cout<<"X="<<x;
cout<<"Y="<<y;
}
};

int main ()
{
B B1;
B *ptr;
ptr = &B1;
ptr->x = 10;
ptr->display();
D D1;
D *ptr1;
ptr1 = &D1;
ptr1->x = 100;
ptr1->y = 200;
ptr1->display ();
}
```

Select one:

- A. X=100 X=100 Y=200
- B. X=100 Y=200
- C. X=100 Y=100
- D. X=100 Y=200 Y=200

The correct answer is:  
X=100 X=100 Y=200

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18CS306-Programming Using CPP-24.12.2021-FA12: Attempt review - Google Chrome

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[90]  
Radha and Krishna run an educational institution where they want the students to display their credentials in the screen and they must provide a provision to get input from the parents too. Help the students in doing the same in whatever format they need.

Show one page at a time

Finish review

Question 1  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[103] [SO1] [60]  
Complete the below code to get 10 characters as input.  
(1 Mark – [An/C ,2])

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Enter name :";
    char c[10];
    _____; // #1
    cout<<c<<endl;
    return 0;
}
```

Select one:

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Correct  
Mark 1 out of 1  
Flag question

Total Time Remaining: 0:00:00

[103] [SO1] [60]  
Complete the below code to get 10 characters as input. (1 Mark – [An/C ,2])

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Enter name :";
    char c[10];
    _____; // #1
    cout<<c<<endl;
    return 0;
}
```

Select one:

- A. cin.getline(c,10);
- B. cin.getline(c);
- C. cin.get(c,10);
- D. cin.get(10);

The correct answer is:  
cin.getline(c,10);

Question 2  
Incorrect

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Incorrect  
Mark 0 out of 1  
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[105] [SO2] [90]

Fill the line #1 in the code given to get the output "##100". (1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
    int x=100;
    cout<<setw(5);
    _____ // #1
    return 0;
}
```

Select one:

- A. cout<<set("#");
- B. cout<<setfill('#')<<x;
- C. cout<<fill('#')<<x;
- D. cout<<setfillx('#');

The correct answer is:  
cout<<setfill('#')<<x;

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The correct answer is:  
cout<<setfill('#')<<x;

**Question 3**  
Correct  
Mark 1 out of 1  
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[107] [SO3] [60]

\_\_\_\_\_ is a method of cin object which is used to input a string with multiple spaces.

(1 Mark – [An/C ,2])

Select one:

A. getline(char \*buffer,int size) 

B. putline(char \*buffer,int size)

C. puts(char \*buffer)

D. getline(size)

The correct answer is:  
getline(char \*buffer,int size)

**Question 4**  
Correct  
Mark 1 out of 1

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Question 4  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[106] [SO2] [90]  
Guess the output of the following code.

(1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
float x=12.01234;
cout<<setprecision(4)<<x;
return 0;
}
```

Select one:

- A. 12.0
- B. 12.012
- C. 12
- D. 12.01

The correct answer is:  
12.01

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Question 5

Incorrect

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00

[101] [SO1] [60]

Which of the following class is indirectly inherited to iostream?

(1 Mark – [U/C ,2])

Select one:

- A. ios
- B. iclass
- C. istream
- D. ostream

The correct answer is:  
ios

Question 6

Incorrect

Mark 0 out of 2

Flag question

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Total Time Remaining: 0:00:00

[102] [SO1] [120]



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Question 6

Incorrect

Mark 0 out of 2

Flag question

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Total Time Remaining: 0:00:00

[102] [SO1] [120]

Match the following formatted or unformatted I/O operations with its method and description.

(2 Marks – [U/C ,2])

Formatted/Unformatted I/O (A)	Method (B)	Description(C)
A1. Unformatted console input	B1. skipws	C1. Unused space filled with specified character
A2. Unformatted console output	B2. fill(char)	C2. Omits white space in the input
A3. Formatted ios class function	B3. void put()	C3. Input a string with multiple spaces
A4. Formatted manipulators	B4. getline(char *buffer,int size)	C4. Print character on the screen

Select one:

A. A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

B. A1-B3-C1;A2-B4-C4;A3-B2-C3;A4-B2-C2

C. A1-B1-C1;A2-B2-C2;A3-B3-C3;A4-B4-C4

D. A1-B4-C4; A2-B3-C3; A3-B2-C2; A4-B1-C1

The correct answer is:  
A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

Question 7

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The correct answer is:  
A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

Question 7

Correct

Mark 2 out of 2

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[108] [SO3] [90]

What will be the output of the below codes in the input is 200?

(2 Marks – [An/C ,2])

- stream.setf(ios::showpos)
- stream.setf(ios::showpoint)

Select one:

- A. 200+, 200.000
- B. +200, 200.00
- C. +200, 2.00
- D. 200.00, 200.000

The correct answer is:  
+200, 200.00

Question 8

Incorrect

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Question 8  
Incorrect  
Mark 0 out of 1  
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Total Time Remaining: 0:00:00

[104] [SO2] [60]  
Guess the output of the following code.

(1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
    int x=100;
    cout<<setw(5)<<x;
    return 0;
}
```

Select one:

A. 100 X

B. 100

C. 100

D. 100

The correct answer is:  
100

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Total Time Remaining: 0:00:00

[60]  
Consider the file named as Sample.txt which is present in your local drive. Answer the below questions using the concept of file streams to perform some operations on the file.

Question 1  
Incorrect  
Mark 0 out of 2  
Flag question

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Total Time Remaining: 0:00:00

[107] [SO-3] [180]

```
#include <iostream>
#include <fstream>
using namespace std;
int main()
{ ofstream fout;
    string line;
    fout.open("sample.txt");
    _____ // Fill the codes here
    _____
    _____
    _____
```

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```
[107] [SO-3] [180]
#include <iostream>
#include <fstream>
using namespace std;
int main()
{ ofstream fout;
string line;
fout.open("sample.txt");
_____ // Fill the codes here
_____
_____
_____
_____
fout.close();
ifstream fin;
fin.open("sample.txt");
while (fin)
{ getline(fin, line); cout << line << endl; }
fin.close();
return 0;
}
```

Complete the above code to write the content into the file and read the content from the file using ifstream and ofstream class objects. (2 Marks-[Ap/P,3])

Select one:

A. while (fout)  
{ getline(cins, line);  
if (line == "-1")  
{  
break;  
}  
fout << Sample.txt << endl;  
}

B. while (fout)

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- C. 

```
while (fout)
{ getline(cin, line)
if (line == "-1")
{
break;
}
fout << line << endl
}
```
- D. 

```
while (fout)
{ getline(cin, lines)
if (line == "-1")
{
breaking;
}
fout << line << endl
}
```

The correct answer is  
**while (fout)**

```
{ getline(cin, line)
if (line == "-1")
{
break;
}
fout << line << endl
}
```

Question 2  
Incorrect  
Mark 0 out of 1

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```
break;
}
fout << line << endl;
}
```

Question 2  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

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Total Time Remaining: 0:00:00

[102] [SO-1] [60]  
In the above scenario, If you want to trim the contents which are present in “Sample.txt” file then the flag to be used is \_\_\_\_\_ . (1 Marks-[An/C,1])

Select one:

- A. ios::app
- B. ios::ate
- C. ios::in
- D. ios::trunc

The correct answer is:  
ios::trunc

Question 3  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

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The correct answer is:  
**ios::trunc**

Question 3  
Incorrect  
Mark 0 out of 1  
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Total Time Remaining: 0:00:00

[106] [SO-2] [75]

Consider the above program (Question 105). If you need to modify the above program for reading the content from the file “Sample.txt”, what flag should be used instead of ios::out. (1 Marks-[An/C,2])

Select one:

- A. ios::seek
- B. ios::in
- C. ios::ate
- D. ios::app



The correct answer is: **ios::in**

Question 4  
Incorrect  
Mark 0 out of 1  
Flag question

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The correct answer is: **ios::in**

**Question 4**  
Incorrect  
Mark 0 out of 1  
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**Total Time Remaining: 0:00:00**

[101] [SO-1] [45]

**What flag will be used to open the file “Sample.txt” for writing?**  
(1 Marks-[U/C,1])

Select one:

- A. **ios::in** ×
- B. **ios::app**
- C. **ios::ate**
- D. **ios::out**

The correct answer is: **ios::out**

**Question 5**  
Incorrect  
Mark 0 out of 1  
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The correct answer is: **ios::out**

**Question 5**  
Incorrect  
Mark 0 out of 1  
 Flag question

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**Total Time Remaining: 0:00:00**

[104] [SO-2] [60]  
Consider the above scenario, Which flag will be used to open a file “Sample.txt” for output and moving the read/write control to the end of the file. (1 Marks-[An/C,2])

Select one:

- A. **ios::ate**
- B. **ios::app**
- C. **ios::in**
- D. **ios::out**

The correct answer is: **ios::ate**

**Question 6**  
Correct  
Mark 1 out of 1  
 Flag question

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Question 6

Correct

Mark 1 out of 1

Flag question

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[108] [SO-3] [60]

**The `put()` method is used to writes a single character to file. (1 Mark-[An/C,1])**

Select one:

- True ✓  
 False

The correct answer is 'True'.

Question 7

Correct

Mark 1 out of 1

Flag question

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Total Time Remaining: 0:00:00

[103] [SO-2] [50]

**In the above scenario, the `ios::app` flag mode is used to append all the output at the end of the file with already existing contents.**

(1 Mark-[An/C,1])



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The correct answer is 'True'.

Question 7  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[103] [SO-2] [50]  
**In the above scenario, the ios::app flag mode is used to append all the output at the end of the file with already existing contents.**  
(1 Mark-[An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

Question 8  
Incorrect  
Mark 0 out of 2  
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Question 8  
Incorrect  
Mark 0 out of 2  
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Total Time Remaining: 0:00:00

```
[105] [SO-2] [145]
#include<iostream>
#include<conio>
#include <fstream>
using namespace std;
int main()
{ _____ // Step 1: Create object of fstream class
_____ // Step 2: Create new file
if(!st)
{
cout<<"File creation failed";
}
else
{
cout<<"New file created";
_____ // Step 3: Close the file
}
getch();
return 0;
}
```

Complete the above code to create/open a file by specifying new path of the file and mode of operation. (2 Marks-[Ap/P,2])

Select one:

A. `filestream st;`  
`st.open("E:\\Sample.txt",ios::out);`  
`st.close();`

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```
    }
else
{
cout<<"New file created";
    // Step 3: Close the file
}
getch();
return 0;
}
```

Complete the above code to create/open a file by specifying new path of the file and mode of operation. (2 Marks-[Ap/P,2])

Select one:

- A. **filestream st;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- B. **stream str;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- C. **fstream stream;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- D. **fstream st;** st.open("E:\\Sample.txt",ios::out);  
st.close();

The correct answer is:  
**fstream st;** st.open("E:\\Sample.txt",ios::out);  
st.close();

Finish review

 moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1583503&cmid=54587

## May question

```
[150]
#include <iostream>
using namespace std;
class Employee {
public:
    float salary = 75000;
};

class ITAnalyst: public Employee {
public:
    float bonus = 7500;
};

int main(void) {
    ITAnalyst obj1;
    cout<<"Salary: "<<obj1.salary<<endl;
    cout<<"Bonus: "<<obj1.bonus<<endl;
    return 0;
}
```

Consider the above C++ program which is used to fix the salary of an employee in an IT industry. And depends upon the employee designation, he/she will get the bonus amount in addition to the salary.

## Question 1

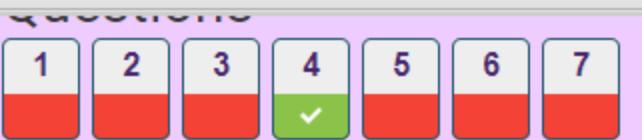
Incorrect

Mark 0 out of 2

Flag question

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Show one page at a time

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Total Time Remaining: 0.00.00

[107] [SO3] [120]

What will be the output of the following code?

(2 Marks-[An/C,1])

```
#include<iostream>
using namespace std;
class A {
public:
    void display() { cout << " In Class A"; }
};
class B: public A {
public:
    void display() { cout << " In Class B"; }
};
class C: public B {};
int main(void)
{
    C c;
    c.display();
    return 0;
}
```

Select one:

A. In Class A

B. Error

C. In class B

D. In Class A

In Class B

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18CS306-Programming Using CPP-03.01.2022-FA14: Attempt review - Google Chrome

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```
void display() { cout << "In Class A"; }
};

class B: public A {
public:
    void display() { cout << "In Class B"; }
};

class C: public B {};
int main(void)
{
    C c;
    c.display();
    return 0;
}
```

Select one:

- A. In Class A
- B. Error
- C. In class B
- D. In Class A

In Class B

The correct answer is:  
In class B

Question 2  
Incorrect  
Mark 0 out of 2  
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Question 2  
Incorrect  
Mark 0 out of 1  
 Flag question

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[105] [SO3] [120]

In the above scenario, we are adding a class `Extrawage` which will have the member data ‘`wage`’ for giving extra money to the employees who works beyond 8 hours/day. This class will also be inherited by `ITAnalyst` class in addition to `Employee` class.

Which of these statements will adhere to this situation?

(2 Marks-[An/C.3])

- It comes under hierarchical inheritance.
  - Syntax is:
  - Class Extrawage: public Employee
  - Class Employee: public ITAnalyst
  - It comes under hybrid inheritance
  - It comes under multiple inheritance
  - Syntax is:
  - Class ITAnalyst: public Employee, public Extrawage
  - Syntax is:
  - Class ITanalyst: public extrawage
  - Class ITAnalyst: public Employee

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- It comes under hybrid inheritance
- It comes under multiple inheritance
- Syntax is:
- Class ITAnalyst: public Employee, public Extrawage
- Syntax is:
- Class ITanalyst: public extrawage
- Class ITAnalyst: public Employee

Select one:

A. II, IV X

B. IV, VI

C. IV, V

D. I,IV, VI

The correct answer is:  
IV, V

Question 3  
Incorrect  
Mark 0 out of 1  
 Flag question

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Total Time Remaining: 0:00:00

[104] [SO2] [60]

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Question 3

Incorrect

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00

[104] [SO2] [60]

Given scenario comes under \_\_\_\_\_ type of inheritance.

(1 Mark-[U/C,1])

Select one:

- A. Hybrid
- B. Multiple
- C. Multilevel
- D. Single



The correct answer is:

Single

Question 4

Correct

Mark 1 out of 1

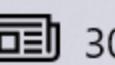
Flag question

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The correct answer is:  
Single

**Question 4**  
Correct  
Mark 1 out of 1  
[Flag question](#)

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**Total Time Remaining: 0:00:00**

[101] [SO1] [60]  
State true or false.  
In the given scenario, the data member salary inside the ITAnalyst class can be accessible.

(1 Mark-[U/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

**Question 5**  
Not answered  
Marked out of 1  
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The correct answer is 'True'.

**Question 5**  
Not answered  
Marked out of 1  
[Flag question](#)

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**Total Time Remaining: 0:00:00**

[106] [SO3] [90]

Which of the following comes under multilevel inheritance?

(1 Mark-[An/C,1])

Select one:

- A. Class A:protected C  
Class A: private B
- B. Class B:public A  
Class C:public B
- C. Class B: public A,public C
- D. Class B:private A  
Class B:public C

The correct answer is:  
Class B:public A  
Class C:public B

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Class C:public B

Question 6  
Not answered  
Marked out of 1  
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Total Time Remaining: 0:00:00

[102] [SO1] [60]

What will be the output of the code given in the scenario?

(1 Mark-[U/C,1])

Select one:

- A. **Salary: 75000**  
Bonus: 7500
- B. **Bonus:7500**  
Salary: 75000
- C. **Salary: 75000**
- D. **Bonus: 7500**

The correct answer is:  
**Salary: 75000**  
**Bonus: 7500**

Question 7  
Not answered

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Bonus: 7500

Question 7  
Not answered  
Marked out of 2  
Flag question

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Total Time Remaining: 0:00:00

[103] [SO2] [120]

**Consider a portion of the above code is modified and given as:**

```
class Employee {  
    protected:  
        float salary = 75000;  
};  
  
class ITAnalyst: private Employee {  
    protected:  
        float bonus = 7500;  
};
```

**Pick the right statements.**

(2 Marks-[An/C,3])

- Salary will be protected inside ITAnalyst
- Bonus will be protected inside ITAnalyst
- Both Salary and Bonus will be protected inside ITAnalyst
- Both Salary and Bonus will be private inside ITAnalyst
- Salary will be private inside ITAnalyst.

Select one:

Type here to search

O 30°C ENG IN 1:03 PM 1/11/2022

```
protected:  
float salary = 75000;  
};  
  
class ITAnalyst: private Employee {  
protected:  
float bonus = 7500;  
};
```

**Pick the right statements.**

(2 Marks-[An/C,3])

- **Salary will be protected inside ITAnalyst**
- **Bonus will be protected inside ITAnalyst**
- **Both Salary and Bonus will be protected inside ITAnalyst**
- **Both Salary and Bonus will be private inside ITAnalyst**
- **Salary will be private inside ITAnalyst.**

Select one:

- A. III, IV, V
- B. I, II, IV
- C. II, IV
- D. I, III, V

The correct answer is:  
II, IV

Finish review





18CS306-Programming Using CPP-04.01.2022-FA15: Attempt review - Google Chrome

moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1598333&cmid=55401

```
using namespace std;
int main()
{
    int x = -1;
    cout << "Before try \n";
    try {
        _____ // Fill the codes here
        _____
        _____
    }
    catch (int x) { cout << "Exception Caught \n"; }
    cout << "After catch (Will be executed) \n";
    return 0;
}
```

Output:

Before try  
Inside try  
Exception Caught  
After catch (Will be executed)

Complete the above code to obtain the given output. (2 Marks-[Ap/P,2])

Select one:

A. `cin << "Inside try \n";  
if (x <= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

B. `cout << "Inside try \n";  
if (x >= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

C. `cin << "Inside try \n";  
if (x >= 0)  
{  
throw x;`

×

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18CS306-Programming Using CPP-04.01.2022-FA15: Attempt review - Google Chrome

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Inside try  
Exception Caught  
After catch (Will be executed)

Complete the above code to obtain the given output. (2 Marks-[Ap/P,2])

Select one:

A. `cin << "Inside try \n";  
if (x <= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

B. `cout << "Inside try \n";  
if (x >= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

C. `cin << "Inside try \n";  
if (x >= 0)  
{  
throw x;  
cout << "After throw (Never executed) \n"; }`

D. `cout << "Inside try \n";  
if (x < 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

The correct answer is:

```
cout << "Inside try \n";  
if (x < 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }
```

Question 3  
Correct  
Mark 2 out of 2  
 Flan

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```
[105] [SO-2] [150]
#include <iostream>
using namespace std;
float division(int x, int y) {
if( y == 0 ) {
throw "Attempted to divide by zero!";
} return (x/y);
}
int main () {
int i = 25; int j = 0; float k = 0;

_____
_____
_____
_____
return 0;
}
```

**Output:**  
Attempted to divide by zero!

Complete the code to achieve the given output. (2 Marks-[Ap/P,2])

Select one:

- A. try  

```
{ k = divi(i, j);
cout << k << endl;
} catchs(const char* e)
{ cerr << e << endl; }
```
- B. try  

```
{ s = division(10);
cout << k << endl;
} catch (const char* e)
{ cerr << e << endl; }
```
- C. catch  

```
{ k = division(i, j);
cout << k << endl;
```

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**Attempted to divide by zero!**  
Complete the code to achieve the given output. (2 Marks-[Ap/P,2])

Select one:

A. try  

```
{ k = divi(i, j);  
cout << k << endl;  
} catchs(const char* e)  
{ cerr << e << endl; }
```

B. try  

```
{ s = division(10);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

C. catch  

```
{ k = division(i, j);  
cout << k << endl;  
} try (const char* e)  
{ cerr << e << endl; }
```

D. try  

```
{ k = division(i, j);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

The correct answer is:  

```
try  
{ k = division(i, j);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

Question 4  
Correct  
Mark 1 out of 1

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Correct  
Mark 1 out of 1  
Flag question

Total Time Remaining: 0:00:00

[107] [SO-2] [75]  
Predict the output for the below given code.

```
#include <iostream>
using namespace std;
int main()
{
try {
throw 10;
} catch (char *excp) {
cout << "Caught Exception" << excp;
}
catch (...) {
cout << "Default Exception\n";
}
return 0;
} (1 Marks-[Ap/P,1])
```

Select one:

A. Default Exception ✓

B. cexcp

C. Caught Exception

D. 10

The correct answer is: Default Exception

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- B. A1-B3, A2-B2, A3-B1
- C. A1-B2, A2-B3, A3-B1
- D. A1-B2, A2-B1, A3-B3

The correct answer is: A1-B2, A2-B3, A3-B1

Question 6  
Correct  
Mark 1 out of 1  
 Flag question

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Total Time Remaining: 0:00:00

[108] [SO-3] [45]

A try block identifies a block of code for which particular exceptions will be activated. It's followed by one or more catch blocks. State True or False.  
(1 Mark-[An/C,1])

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 7  
Correct  
Mark 1 out of 1  
 Flag question

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The correct answer is 'True'.

**Question 7**  
Correct  
Mark 1 out of 1  
[Flag question](#)

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**Total Time Remaining: 0:00:00**

[101] [SO-1] [45]  
\_\_\_\_\_ in C++ is a process to handle runtime errors.  
(1 Marks-[U/C,1])

Select one:

- A. Output handling
- B. Exception handling
- C. Error handling
- D. File handling

The correct answer is: **Exception handling**

**Question 8**  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

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Incorrect  
Mark 0 out of 1  
[Flag question](#)

[CLICK HERE TO VIEW SCENARIO](#)

Total Time Remaining: 0:00:00

[103] [SO-1] [60]

Predict the output for the below given code.

```
#include <iostream>
using namespace std;
float division(int x, int y)
{ return (x/y);
}
int main()
{ int i = 50;
int j = 0;
float k = 0;
k = division(i, j);
cout << k << endl;
return 0;
} (1 Marks-[Ap/P,1])
```

Select one:

A. infinity

B. 0

C. Floating point exception (core dumped)

D. 1

The correct answer is: Floating point exception (core dumped)

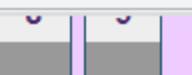
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INFORMATION  
Flag question

Consider the Fig 1.1 as shown below. If all the parts are dismantled in this case and a student is asked to assemble the processor , he / she has to follow the following steps 1 to 11 in the given sequence. Each component plays a vital role inside a processor . For Example the hard drive is used to store the data based on its capacity . All the operations will be performed inside the CPU .All the ALU operations are performed by the processor .



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Finish review

As the processor only accepts 0's and 1's the Human Understandable Language must be converted into Assembly Language using Interpreter and Assembler . The human understandable language are written in the form of algorithm as described in the steps and the human and machine understandable language is called as a Pseudocode .



Fig . 1.1

Step 1 : Open Case

Step 2 Mount Motherboard

Step 3 : Mount Processor (CPU)

Step 4 : Install CPU cooler

Step 5 : Install Power Supply

Step 6: Install Mount Memory (RAM)

Step 7 :Install Graphics Cards

Step 8: Mount Storage Devices

Step 9 : Mount official Drive

Step 10 : Connect Case fans and Front Panel Connector

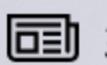
Step 11 : Close Case and Connect Peripherals

Answer the following Questions based on the given scenario.

NO more attempts are allowed



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**Question 1**

Complete

Mark 1 out of 1

Flag question

From the given scenario, Identify the representation of the steps to assemble the components inside the processor

[An/C,2]

- A. Program Instructions
- B. Algorithm
- C. Logic
- D. Abstract Data Type
- E. Data Structure

**Question 2**

Complete

Mark 1 out of 1

Flag question

Consider for example I would like to store two different movies in my hard drive under the folder named MOVIES. But I do not know in which memory location it is been exactly stored inside the memory (hard drive). This process of storage representation inside the memory is called?

. [An/C,2]

- A. Encapsulation
- B. Abstract data type
- C. Memory Abstraction
- D. Data Structure

**Question 3**

Complete

Mark 1 out of 1

Flag question

Identify the Missing sequence X in the following Pseudocode to add two numbers

```
BEGIN
NUMBER s1, s2, sum
OUTPUT("Input number1:")
INPUT s1
OUTPUT("Input number2:")
INPUT s2
_____ X _____
OUTPUT sum
END
```

No more attempts are allowed



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Question 2  
Complete  
Mark 1 out of 1

Consider for example I would like to store two different movies in my hard drive under the folder named MOVIES. But I do not know in which memory location it is been exactly stored inside the memory (hard drive). This process of storage representation inside the memory is called?

[An/C,2]

- A. Encapsulation
- B. Abstract data type
- C. Memory Abstraction
- D. Data Structure

Question 3

Complete

Mark 1 out of 1

Flag question

Identify the Missing sequence X in the following Pseudocode to add two numbers

```
BEGIN
NUMBER s1, s2, sum
OUTPUT("Input number1:")
INPUT s1
OUTPUT("Input number2:")
INPUT s2
_____ X _____
OUTPUT sum
END
```

[An/P,2]

- A. sum=s1+s2+s3
- B. sum=s1+s2
- C. add=s1+s2+s3
- D. sum=add1+add2
- E. add=s1+s2

Information

Flag question

Consider the following memory block and answer the following questions:

(Note: Green blocks represent free memory locations)

NO more attempts are allowed



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[A/I/P,2]

- A. sum=s1+s2+s3
- B. sum=s1+s2
- C. add=s1+s2+s3
- D. sum=add1+add2
- E. add=s1+s2

Information

Flag question

Consider the following memory block and answer the following questions:

(Note: Green blocks represent free memory locations)

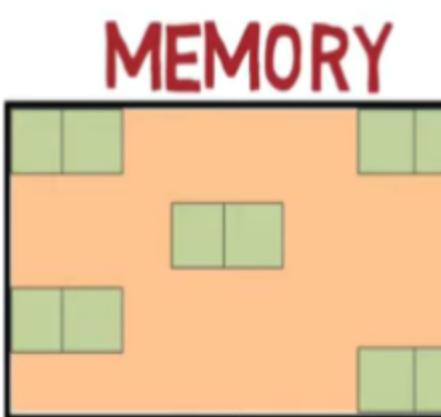


Fig 1.2

Question 4

Complete

Mark 1 out of 1

Flag question

The memory blocks shown in the above Fig 1.2 can be used to store an array of 5 elements.

[U/C,2]

Select one:

 True False

Question 5

Complete

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

No more attempts are allowed



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Fig 1.2

## Question 4

Complete

Mark 1 out of 1

 Flag question

The memory blocks shown in the above Fig 1.2 can be used to store an array of 5 elements.

[U/C,2]

Select one:

- True  
 False

## Question 5

Complete

Mark 0 out of 2

 Flag question

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

[Ap/C,2]

- A. Constant Time  
 B. Sequential Time  
 C. Quadratic Time  
 D. Linear Time  
 E. Exponential Time

## Question 6

Complete

Mark 1 out of 1

 Flag question

Consider the following images as shown in Fig 1.3 and identify the correct statement(s):



Fig 1.3 [U/C,2]

NO more attempts are allowed



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Question 5

Complete

Mark 0 out of 2

Flag question

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

[Ap/C,2]

- A. Constant Time
- B. Sequential Time
- C. Quadratic Time
- D. Linear Time
- E. Exponential Time

Question 6

Complete

Mark 1 out of 1

Flag question

Consider the following images as shown in Fig 1.3 and identify the correct statement(s):



Fig 1.3 [U/C,2]

- A. Graph
- B. Tree
- C. Queue
- D. Stack
- E. List

Question 7

Complete

Mark 0 out of 1

Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic

No more attempts are allowed



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Flag question

Image 2:



Fig 1.3 [U/C,2]

- A. Graph
- B. Tree
- C. Queue
- D. Stack
- E. List

Question 7

Complete

Mark 0 out of 1

 Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic
- B. Looping Logic
- C. Iterative Logic
- D. Branching Logic
- E. Selection Logic

Question 8

Complete

Mark 0 out of 1

 Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only

No more attempts are allowed



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Question 7

Complete

Mark 0 out of 1

Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic
- B. Looping Logic
- C. Iterative Logic
- D. Branching Logic
- E. Selection Logic

Question 8

Complete

Mark 0 out of 1

Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only
- B. ii and iv only
- C. i and ii only
- D. ii and iii only
- E. i only

Question 9

Complete

Mark 0 out of 1

Flag question

Suppose the given memory blocks are used as linked list nodes, the first part of the node is used to store the data and second part is used to store? (Refer Fig 1.2)

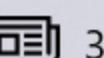
[U/C,2]

- A. Size of the data
- B. Address of free memory block
- C. Address of next memory location

No more attempts are allowed



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Question 8

Complete

Mark 0 out of 1

Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only
- B. ii and iv only
- C. i and ii only
- D. ii and iii only
- E. i only

Question 9

Complete

Mark 0 out of 1

Flag question

Suppose the given memory blocks are used as linked list nodes, the first part of the node is used to store the data and second part is used to store? (Refer Fig 1.2)

([U/C,2])

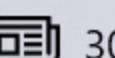
- A. Size of the data
- B. Address of free memory block
- C. Address of next memory location
- D. Address of the data
- E. Datatype of the data

Finish review

No more attempts are allowed



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**Grade** 6 out of 10 (60%)

Information

Flag question

Consider a music player which consists of the following features.

- Display songs in list from device
- Songs list by Songs Artist, Album Files, and Folder etc...
- Play selected song
- Add song to queue
- Play Song in background
- Stop, Next and Previous Song
- Progress of Song
- Time Duration of Song
- Set Setting of App
- Share Song on Social Media like Facebook WhatsApp etc.
- Tag Editor also Available to change song tag
- It Have Also functionality like... Shuffle all Song, Shuffle specific Song, Repeat Song, Change widget style of App, Change Audio Visualizer, Set Equalizer, Add to Playlist, and Set as Ringtone.

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Finish review

**Question 1**

Complete

Mark 1 out of 1

Flag question

Look at the Fig2.1 given below. The Music player consists of the forward and backward button. Choose the data structure used to implement the functionality of Skip forward and Backward .

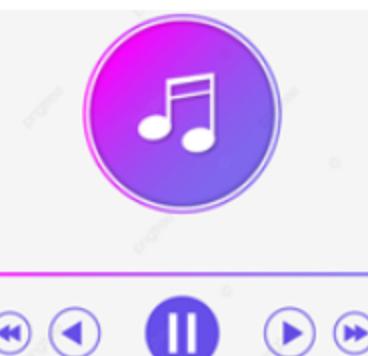


Fig 2.1

- It Have Also functionality like... Shuffle all Song, Shuffle specific Song, Repeat Song, Change widget style of App, Change Audio Visualizer, Set Equalizer, Add to Playlist, and Set as Ringtone.

**Question 1**

Complete

Mark 1 out of 1

Flag question

Look at the Fig2.1 given below. The Music player consists of the forward and backward button. Choose the data structure used to implement the functionality of Skip forward and Backward .

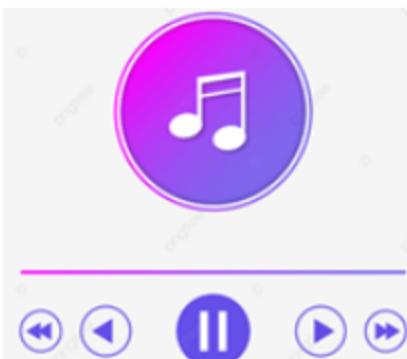


Fig 2.1

- a. One Dimensional Array
- b. Singly Linked List
- c. Circular Linked List
- d. Doubly Linked List

**Question 2**

Complete

Mark 1 out of 1

Flag question

Identify the data structure to be used in the album has to be run on a loop..

[Ap/C,2]

- a. Circular Linked List
- b. Stack Data Structure
- c. Queue Data Structure
- d. Queue Data Structure



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Complete

Mark 1 out of 1

[Flag question](#)

If I wish to delete a song that is inserted at first in my Music Player Album. Determine the time taken to delete a song?  
[E/C,2]

- a.  $O(n^*n)$
- b.  $O(1)$
- c.  $O(n\log n)$
- d.  $O(\sqrt{n})$

**Question 5**

Complete

Mark 1 out of 1

[Flag question](#)

For the given polynomial:  $6x^3+4x^2+5x+2$ , compute the maximum degree of polynomial.  
([Ap/C,2])

- a. 3
- b. 6
- c. 2
- d. 5

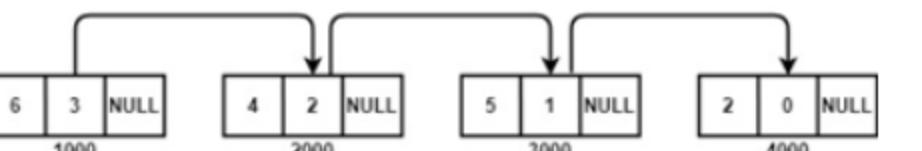
**Question 6**

Complete

Mark 0 out of 1

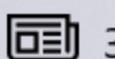
[Flag question](#)

Select the linked list representation of the given polynomial  $6x^3+4x^2+5x+2$ .  
([Ap/C,2])

- a. 
- b. 



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question

- a. 3
- b. 6
- c. 2
- d. 5

**Question 6**

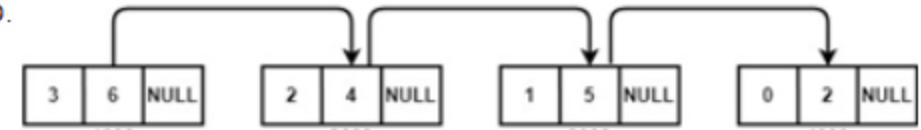
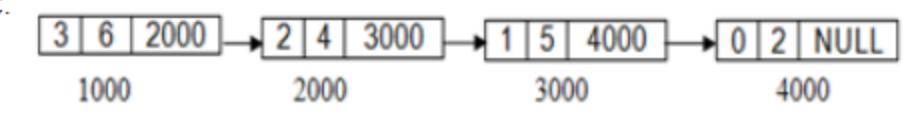
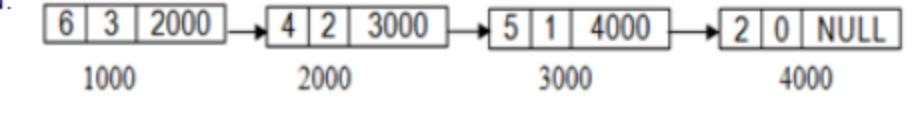
Complete

Mark 0 out of 1

Flag question

Select the linked list representation of the given polynomial  $6x^3 + 4x^2 + 5x + 2$ .  
([Ap/C,2])

- a.  

- b.  

- c.  

- d.  


**Question 7**

Complete

Mark 2 out of 2

Flag question

Find the missing statement X in the following code that contains the logic to insert a new node 40 as shown in Fig 2.2 at the end of a given singly linked list



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**Question 7**

Complete

Mark 2 out of 2

Flag question

Find the missing statement X in the following code that contains the logic to insert a new node 40 as shown in Fig 2.2 at the end of a given singly linked list

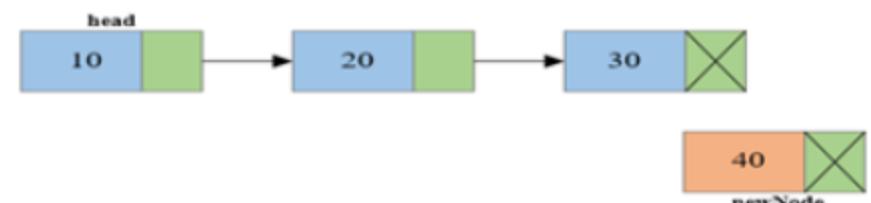


Fig 2.2

```
void insert_at_end(int data)
{
    struct node *newNode, *temp;
    newNode = (struct node*)malloc(sizeof(struct node));
    if(newNode == NULL)
    {
        printf("Unable to allocate memory");
    }
    else { newNode->data = data; newNode->next = NULL; temp = head;
            while(temp->next != NULL)
            {
                temp = temp->next;
                _____ X _____; }}}
```

([Ap/C,2])

- a. temp->next = temp --> data
- b. temp->next=newNode;
- c. temp--> next = temp
- d. temp->data=newNode

**Question 8**

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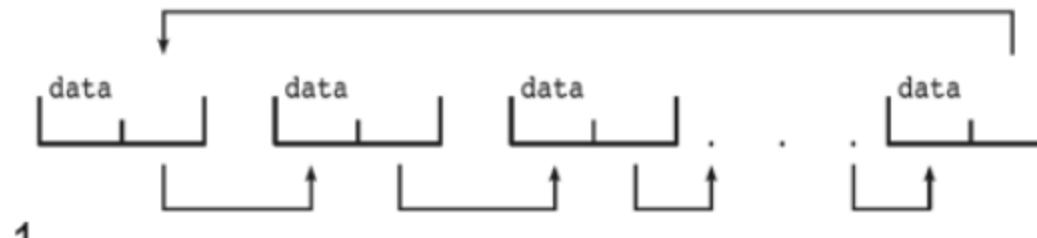
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**Question 8**

Complete

Mark 0 out of 2

Flag question

A. Type of list	B. Property	C. Representation
1. Singly linked list	1. Points to both Previous and next node	 1.
2. Doubly linked list	2. Last node points to first node	 2.
3. Circular linked list	3. Points to the next node	 3.

- a. A1-B3-C1; A2-B1-C3; A3-B2-C2
- b. B3-C2; A2-B1-C3; A3-B2-C1
- c. A1-B1-C3; A2-B2-C1; A3-B3-C2
- d. A1-B2-C2; A1-B3-C3; A3-B1-C1

Information

Flag question

Consider in a cellular network, a group is created with a list of mobile users. Every mobile phone is mapped with a single IP Address. The Cellular Network Administrator maintains a list of all IP address of all the mobile phones accessing the network. A firewall is used to detect the anonymous IP's from intruding the network using IP whitelist and IP blacklist maintained by the network administrator. IP whitelist is the list of all IP address that is authorized to access the network and IP black list is the list of all unauthorized network. If any new unauthorized IP address is found by the admin then he has to update the IP black list. Similarly if any new authorized user is added to the network then the admin has to update the IP whitelist. Group administrator is responsible for communicating the updates happening to the whitelists and blacklists to all other members in the group.



Based on this scenario answer the following questions:

Question 1

Complete

Mark 0 out of 1

Flag question

Identify the type of linked list is used to forward the message from the head to all the members in the group?

(1 Mark-[U/C,2])

- A. Doubly Linked List
- B. Singly Linked List
- C. Circular Linked List
- D. Array

Question 2

Complete

Mark 0 out of 1

Consider that your firewall has identified an IP that should be blocked. You have to block that IP from the list. Identify the operation involved in the list of blocking IP?

(1 Mark-[U/C,2])

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[Home](#)[Dashboard](#)[Events](#)[My courses](#)[This course](#)[⚙️ Hide blocks](#)[Standard view](#)**Question 2**

Complete

Mark 0 out of 1

[Flag question](#)

Consider that your firewall has identified an IP that should be blocked. You have to block that IP from the list. Identify the operation involved in the list of blocking IP?

(1 Mark-[U/C,2])

- A. Removing IP to the Whitelist
- B. Removing IP to the blacklist
- C. Adding IP to the Whitelist
- D. Adding IP to the blacklist

**Question 3**

Complete

Mark 1 out of 1

[Flag question](#)

Assertion: In the above question no :03, we do not know how many IP's are blacklisted in a day?

Reason : This implies that linked list is resizable (i.e) Dynamic.

(1 Mark-[U/C,2])

- A. Assertion is True and Reason is False
- B. Both the Assertion and Reason are False
- C. Assertion is False and reason is True
- D. Both Assertion and Reason are True

**Question 4**

Complete

Mark 0 out of 1

[Flag question](#)

Identify the following statement is True or False:

A message is divided into several packets. Each packet is assigned with a key which connects to the next key( i.e, next packet) and so on, to the n-th key, to make the whole text message wherein it contains the key and the actual data. Thus, every message transfer contains packets of a messages linked from first packet to the last packet. Does this series of packets can be represented by circular linked list?

(1 Mark-[U/C,2])



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**Question 4**

Complete

Mark 0 out of 1

Flag question

Identify the following statement is True or False:

A message is divided into several packets. Each packet is assigned with a key which connects to the next key( i.e, next packet) and so on, to the n-th key, to make the whole text message wherein it contains the key and the actual data. Thus, every message transfer contains packets of a messages linked from first packet to the last packet. Does this series of packets can be represented by circular linked list?

(1 Mark-[U/C,2])

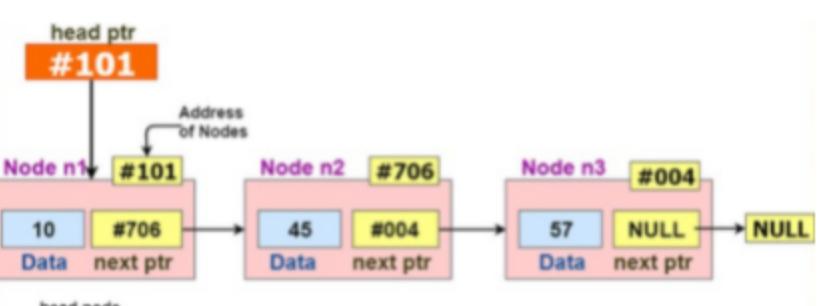
Select one:

 True False**Information**

Flag question

Consider the following snippet of code to create the single node .

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```



Select one:

True

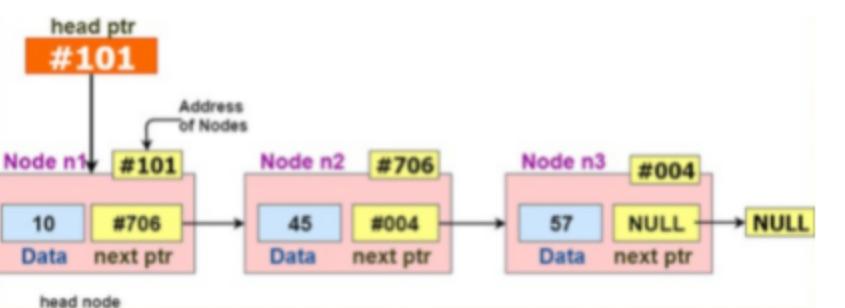
False

Information

Flag question

Consider the following snippet of code to create the single node .

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```



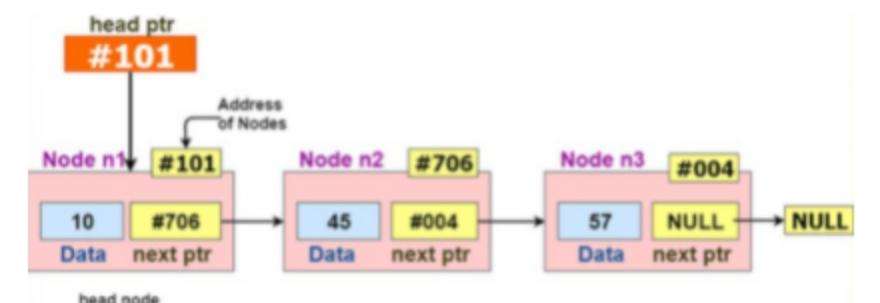
Question 5

Complete

Mark 1 out of 1

Flag question

Predict the code below to allocate the memory for the above structure.



## Question 5

Complete

Mark 1 out of 1

Flag question

Predict the code below to allocate the memory for the above structure.

(1 Mark-[Ap/C,2])

- A. `ptr=(NODE*)malloc(sizeof(NODE));`
- B. `ptr=(NODE*)malloc(NODE);`
- C. `ptr=(NODE*)malloc(sizeof(NODE));`
- D. `ptr=(NODE*)malloc(sizeof(NODE*));`

## Question 6

Complete

Mark 1 out of 1

Flag question

How many blocks of memory byte will be allocated to the above structure if the data defined as float?

(1 Mark-[U/C,2])

- A. 12 bytes
- B. 2 bytes

(1 Mark-[Ap/C,2])

- A. **ptr=(NODE)malloc(sizeof(NODE));**
- B. ptr=(NODE\*)malloc(NODE);
- C. **ptr=(NODE\*)malloc(sizeof(NODE));**
- D. ptr=(NODE\*)malloc(sizeof(NODE\*));

**Question 6**

Complete

Mark 1 out of 1

 Flag question

How many blocks of memory byte will be allocated to the above structure if the data defined as float?

(1 Mark-[U/C,2])

- A. 12 bytes
- B. 2 bytes
- C. 4 bytes
- D. 8 bytes

**Question 7**

Complete

Mark 1 out of 1

 Flag question

Consider "p" and "q" are pointers to a node of the linked list, "head" points to the first node of the list, "next" points to the next node in the list, Find which of the following is true for the following piece of code:

```
for (p=head, q = head; p!=NULL; q = p)
{
    p = p->next;
    free(q);
}
```

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Mark 1 out of 1

- A. 12 bytes  
 B. 2 bytes  
 C. 4 bytes  
 D. 8 bytes

Question 7

Complete

Mark 1 out of 1

[Flag question](#)

Consider "p" and "q" are pointers to a node of the linked list, "head" points to the first node of the list, "next" points to the next node in the list, Find which of the following is true for the following piece of code:

```
for (p=head, q = head; p!=NULL; q = p)
{
    p = p->next;
    free(q);
}
```

(1 Mark-[Ap/C,2])

- A. Does not delete any node  
 B. The program will crash  
 C. Delete all nodes  
 D. Deletes all node except the last node

Question 8

Complete

Mark 1 out of 1

[Flag question](#)

Array implementation of a fixed list A,(i.e, A[50]) is not dynamic, which of the following statements do not support this argument?

(1 Mark-[U/C,2])

- A. space allocation for array is fixed and cannot be changed during run-time  
 B. user unable to give the input for stack operations



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D. Deletes all node except the last node

**Question 8**

Complete

Mark 1 out of 1

Flag question

Array implementation of a fixed list A,(i.e, A[50]) is not dynamic, which of the following statements do not support this argument?

(1 Mark-[U/C,2])

- A. space allocation for array is fixed and cannot be changed during run-time
- B. user unable to give the input for stack operations
- C. Improper Compilation execution
- D. a runtime exception halts execution

**Question 9**

Complete

Mark 0 out of 2

Flag question

Analyse the given code below and find the suitable option.

```
newNode = (struct node *)malloc(sizeof(struct node));
printf("\nEnter data of node %d : ", i);
scanf("%d", &data);
newNode->data = data;
newNode->prev = last; // Link new node with the previous node
newNode->next = NULL;
last->next = newNode; // Link previous node with the new node
last = newNode;
```

(1 Mark-[An/P,2])

- A. Base Address



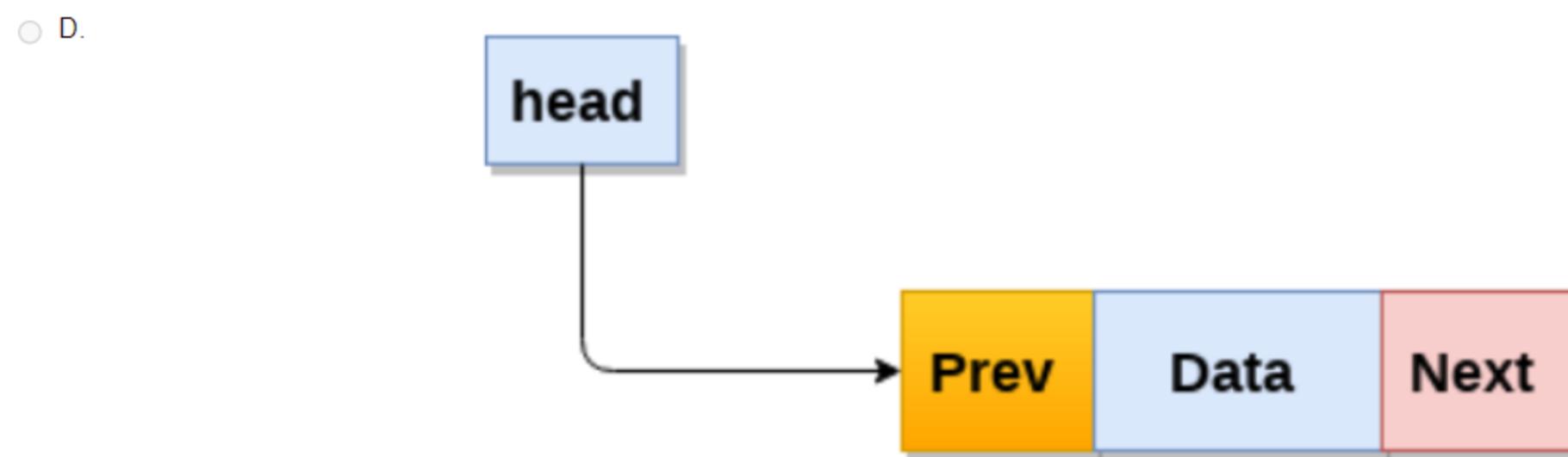
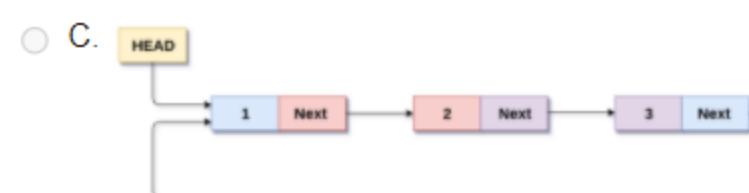
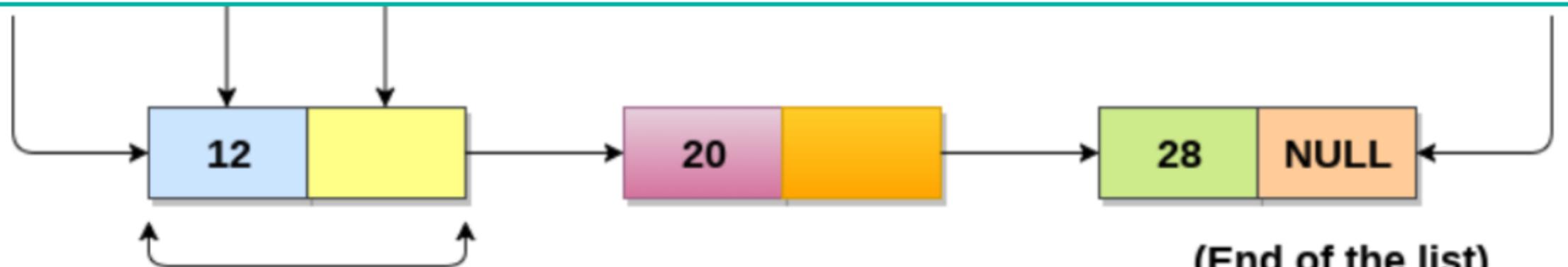
100

104

108

112

116



Node

Information

Flag question

Consider the Marks secured by the student in the Data Structure Formative Assessment from test 0 to test 9 is given as shown in table 1.1.

Test	0	1	2	3	4	5	6	7	8	9
Marks	6	3	8	1	5	7	9	0	2	4

Table 1.1

Answer the following Questions based on the given scenario.

Total Time Remaining: 0:00:00

Question 1

Correct

Mark 2 out of 2

Flag question

[SO-3] [120]

Find the binary Search Tree for the table as shown in Table 1.1

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

A.

6

✓

**Question 1**

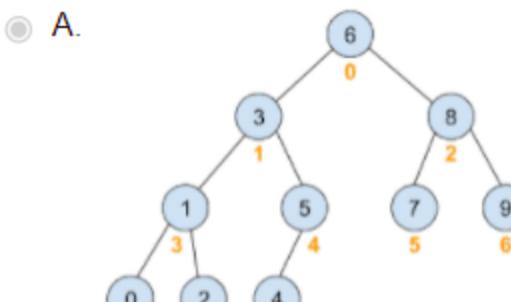
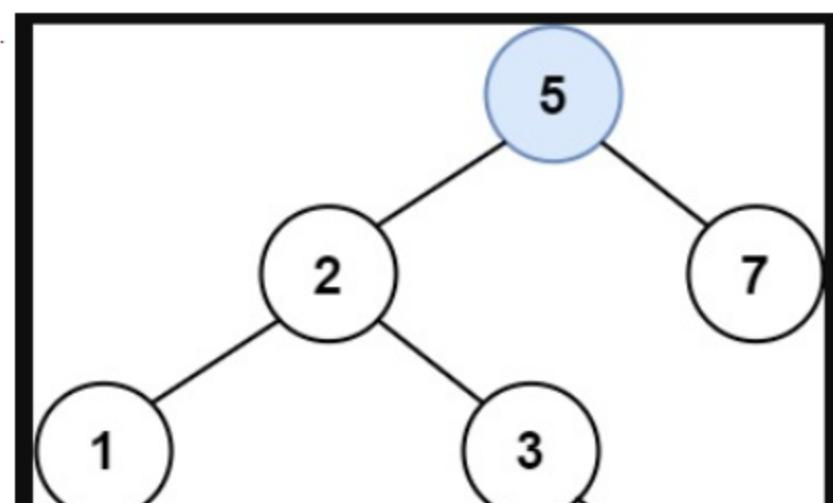
Correct

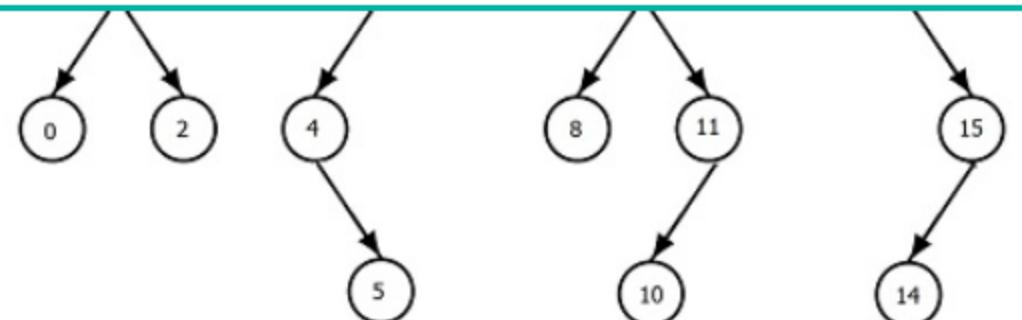
Mark 2 out of 2

 Flag question**[SO-3] [120]**

Find the binary Search Tree for the table as shown in Table 1.1

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00** A. B.



## Question 2

Incorrect

Mark 0 out of 1

Flag question

[SO-3][60]

Consider you want to search for the student Test Mark 5 in the given Table 1.1. Find in which side of the BST you can go for search in a BST so that you can search it efficiently?

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. Left subtree's left side
- B. Root node's left subtree
- C. Right subtree's left side
- D. Root node's right subtree

## Question 3

Correct

Mark 1 out of 1

Flag question

[SO-3][60]

From the given table 1.1 if the student scores the mark 10/10 in his TestNo. 10.

I should add the mark 10 in the right of right subtree.

(1 Mark-[Ap/C,2])

- A. Left subtree's left side
- B. Root node's left subtree
- C. Right subtree's left side
- D. Root node's right subtree

Question 3

Correct

Mark 1 out of 1

Flag question

[SO-3][60]

From the given table 1.1 if the student scores the mark 10/10 in his TestNo. 10.

I should add the mark 10 in the right of right subtree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

Select one:

- True ✓
- False

Question 4

Incorrect

Mark 0 out of 1

[SO-3][60]

Considering the Scenario given in Question 1:



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Select one:

- True ✓  
 False

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

**[SO-3][60]**

Considering the Scenario given in Question 1:

**Assertion:** The insertion operation is performed with  $O(\log n)$  time complexity in BST.**Reason :** The Search operation is performed either on left or right subtree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A. Only the Reason is True
- B. Only the Assertion is True
- C. Both the Assertion and Reason are True
- D. Both the Assertion and Reason are False

X

## Information

Flag question

**[120]**Consider any Expression; the particular expression has to be compiled by the compiler in our computer machine. The compiler follows the set of following rules :  
If it reads the operand, push it into the stack.

Type here to search



Information

120

Consider any Expression; the particular expression has to be compiled by the compiler in our computer machine. The compiler follows the set of following rules :

If it reads the operand, push it into the stack.

If operator, then operator becomes the root.

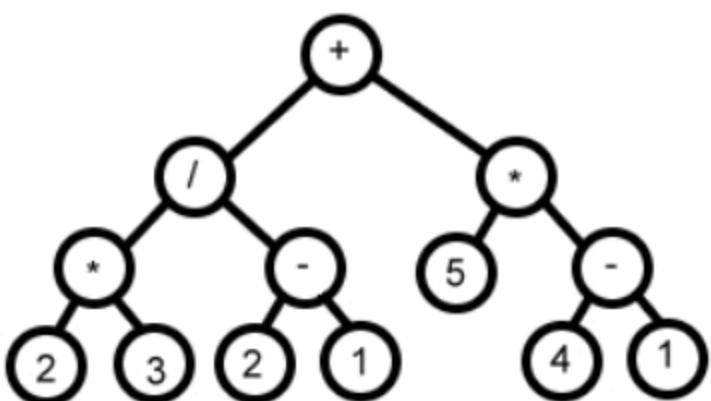
2.1 pop first two elements from the stack

2.2 Top most elements becomes the right child

2.3 Next to top becomes the left child

Form a sub tree and push the sub-tree into the stack.

Based on the rules followed by the compiler for expression evaluation given above answer the following questions.



Expression Tree Figure. 1.1

Total Time Remaining: 0:00:00

**Question 5**

Not answered

Marked out of 1

Flag question

[SO-4][60]

In an Expression Tree construction, if a new operand node is encountered .Identify the operation the compiler has to be performed?

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A. merge all the nodes
- B. create one node pointing to a stack
- C. pop the nodes from the stack
- D. clear stack

**Question 6**

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

Analyze the given Expression Tree in figure 1.1, and identify the leaves of an expression tree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A. merge all the nodes
- B. create one node pointing to a stack
- C. pop the nodes from the stack
- D. clear stack

Question 6

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

Analyze the given Expression Tree in figure 1.1, and identify the leaves of an expression tree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. operator
- B. null
- C. operands
- D. expression

Question 7

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

The expression obtained by recursively producing a left expression, followed by an operator, followed by recursively producing a right expression is called?

(1 Mark-[Ap/C,2])



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- B. null
- C. operands
- D. expression

Question 7

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

The expression obtained by recursively producing a left expression, followed by an operator, followed by recursively producing a right expression is called?

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. postfix expression
- B. parenthesized expression
- C. prefix expression
- D. infix expression



Question 8

Incorrect

Mark 0 out of 1

Flag question

[SO-4][120]

Analyze the expression tree in figure 1.1 and select the expression.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- C. prefix expression
- D. infix expression

**Question 8**

Incorrect

Mark 0 out of 1

Flag question

[SO-4][120]

Analyze the expression tree in figure 1.1 and select the expression.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A.  $(4-1)*5+(2-1)/3*2$
- B.  $+/*23(2-1)+5*(4-1)$
- C.  $2*3/(2-1)+5*(4-1)$
- D.  $6/(2-1)+$*(5-1)$

**Question 9**

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

State whether Only infix expression can be made into an expression tree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

D.  $6/(2-1)+\$*(5-1)$ 

## Question 9

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

State whether Only infix expression can be made into an expression tree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

Select one:

- True ✓
- False

Finish review



PREVIOUS ACTIVITY

18CS302\_DATASTRUCTURES\_FA10\_20.10.2021

NEXT ACTIVITY

2021-18CS302- DATA STRUCTURES-Feedback -27.10.2021



Jump to...

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[120]

Chennai Central Station utilizes a database to keep its platforms scheduled and occupied with trains all the time. If there is a free platform for a particular amount of time, database is refreshed to make the free slot busy. Each time, the railway authorities ensure the balancing of the platforms by keeping it occupied by trains all the time. A typical schedule planned for the platform number 12 is given below.

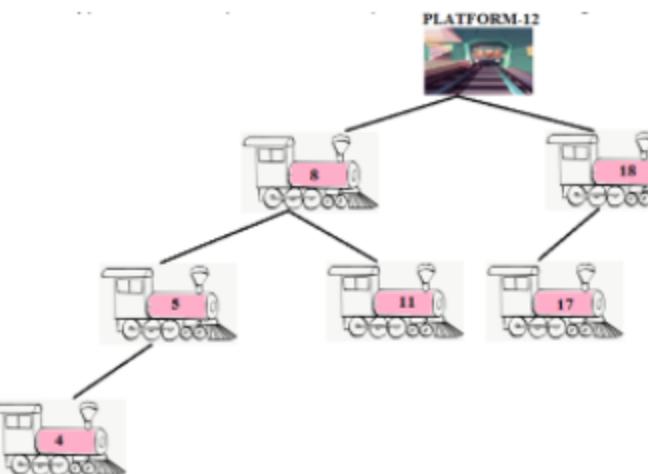


Fig.1: Central Railway Station-Platform number 12

Based on the above scenario, answer the following:

Total Time Remaining: 0:00:00

Question 1

Complete

Mark 1 out of 1

Flag question

[SO-1] [60]

Identify the type of the tree data structure utilized to create the database by Central Railway authorities.

(1 Mark-[U/C,2])

Total Time Remaining: 0:00:00

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Question 1

Complete

Mark 1 out of 1

[Flag question](#)

[SO-1] [60]

Identify the type of the tree data structure utilized to create the database by Central Railway authorities.

(1 Mark-[U/C,2])

Total Time Remaining: 0:00:00

Select one:

- A. Red Black Tree
- B. Heap Tree
- C. AVL Tree
- D. B Tree
- E. Splay Tree

Question 2

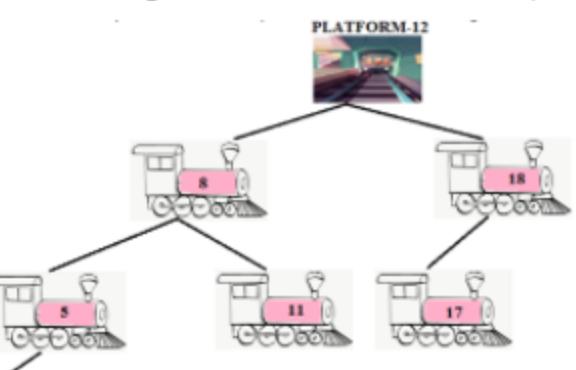
Complete

Mark 1 out of 1

[Flag question](#)

[SO-6] [120]

As the database is refreshed timely to keep it balance, calculate the balancing factor for the Train no 8. (Refer given Fig.1.)



**Question 2**

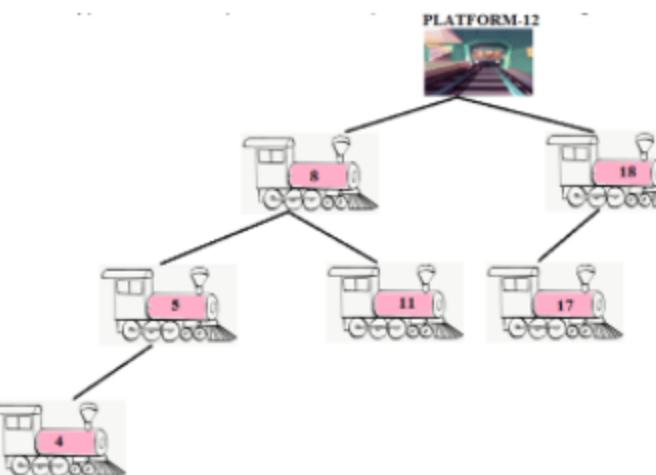
Complete

Mark 1 out of 1

Flag question

**[SO-6] [120]**

As the database is refreshed timely to keep it balance, calculate the balancing factor for the Train no 8. (Refer given Fig.1.)



(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. -1
- B. 0
- C. 3
- D. 1
- E. 2

**Question 3**

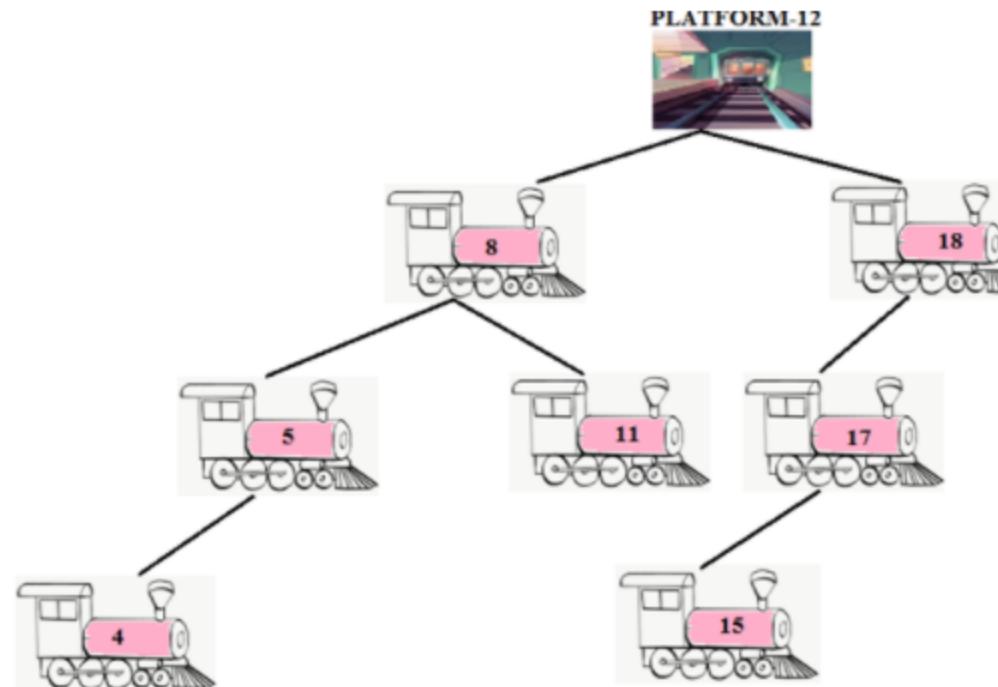
Complete

Mark 0 out of 1

Flag question

**[SO-6] [120]**

- Current view of the Central Station data structure looks like the below figure after inserting a new train number 15. Check whether the data structure is balanced or not. If balanced, what would be the balancing factor of the platform (root node).



(1 Mark-[An/C,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. Unbalanced, -2
- B. Balanced, 0



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 False**Question 5**

Complete

Mark 0 out of 1

Flag question

**[SO-6] [60]**

The below subtree of the Central Station data structure is unbalanced. Identify the unbalancing problem if train number 15 is recently inserted.

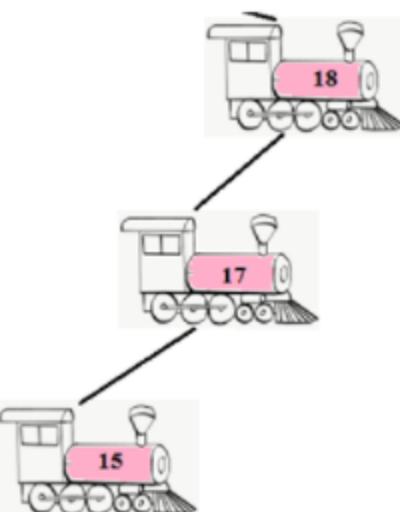


Fig.2 Subtree

(1 Mark - [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. Right-Right
- B. Left-Right
- C. NULL
- D. Left-Left



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**Question 6**

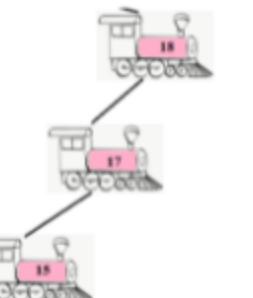
Complete

Mark 3 out of 3

Flag question

**[SO-6] [120]**

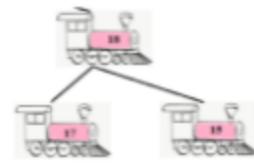
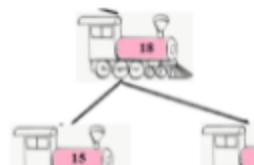
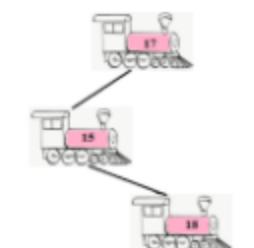
Choose the correct balanced subtree after undergoing rotations on the given figure.

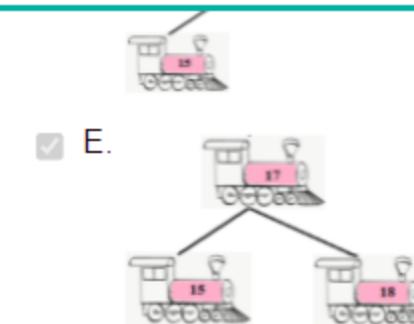


(3 Marks – [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

 A. B. C. D.10:51 AM  
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Question 7

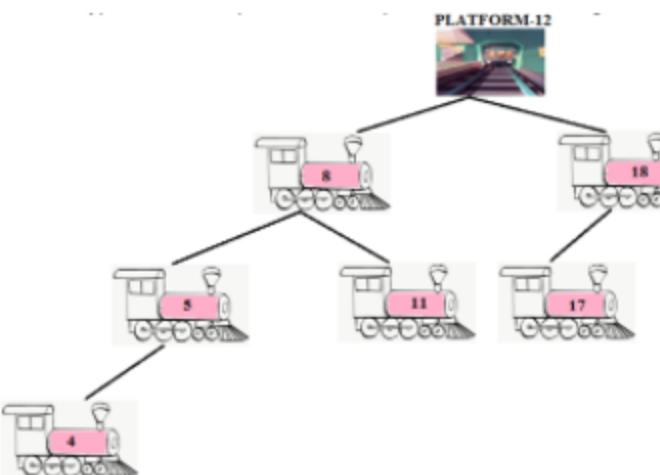
Complete

Mark 2 out of 2

Flag question

[SO-6][160]

The train number next to be scheduled in platform 12 is 8. Inorder approach is utilized for scheduling the trains to the platforms. After scheduling, that particular train number details will be removed from the database. Rearranging operation will be performed after removing a particular train detail. After completely balancing the data structure, next train to be scheduled to the platform is decided. What would be the next train to be scheduled after rearrangement of the train data structure.



(2 Marks – [Ap/P,2])

Total Time Remaining: 0:00:00

Question 7

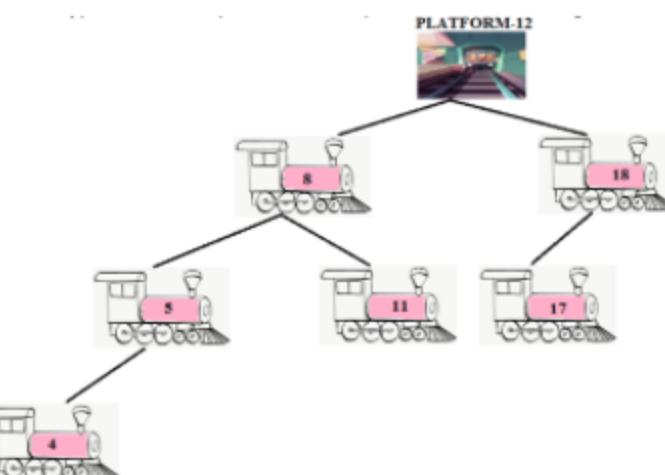
Complete

Mark 2 out of 2

Flag question

**[SO-6][160]**

The train number next to be scheduled in platform 12 is 8. Inorder approach is utilized for scheduling the trains to the platforms. After scheduling, that particular train number details will be removed from the database. Rearranging operation will be performed after removing a particular train detail. After completely balancing the data structure, next train to be scheduled to the platform is decided. What would be the next train to be scheduled after rearrangement of the train data structure.



(2 Marks – [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. 5
- B. 4
- C. 18
- D. 11

Information  
Flag question

Consider the Employee database which is stored inside the disk structure. The disk structure stores the data inside the disk using the track number and sector number . The B-Tree Representation as shown in the figure 4.1

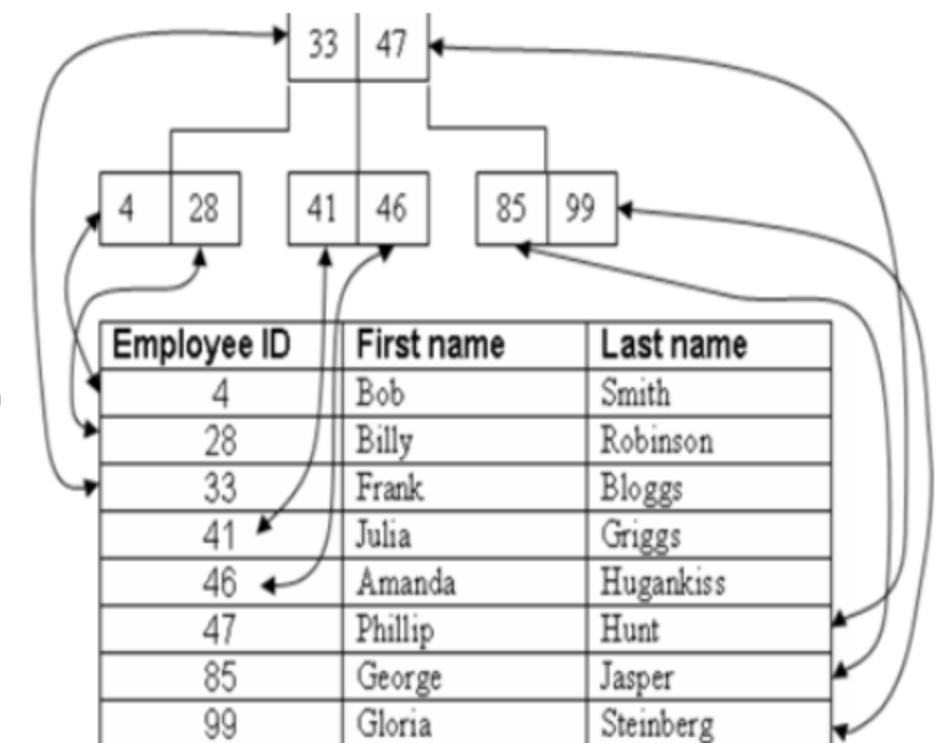
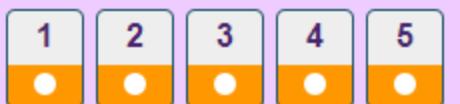


Figure 4.1

Total Time Remaining: 0:00:00

### Questions



### Scenario



### Questions



Show one page at a time

Finish review

**Question 1**

Partially correct

Mark 0 out of 1

Flag question

In the given figure 4.1, the order of the Tree is increased to 5. Then Identify the true statement which best suits from the given options.

[(1 Mark – [An/P,2])]

- a. smaller the order of B-tree, less frequently the split occurs
- b. larger the order of B-tree, more frequently the split occurs
- c. smaller the order of B-tree, more frequently the split occurs
- d. larger the order of B-tree, less frequently the split occurs



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 ✓

Total Time Remaining: 0:00:00

**Question 2**

Partially correct



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**Question 2**

Partially correct

Mark 0 out of 1

 Flag question

Find the order of the given B-Tree as shown in the figure 4.1.

[(1 Mark – [An/P,2])]

 a. 2 b. 3 c. 1 d. 4

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 No 

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 Yes 

Total Time Remaining: 0:00:00



Total Time Remaining: 0:00:00

**Question 3**

Partially correct

Mark 2 out of 2

 Flag question

Find the maximum and minimum number of child nodes for the above-given figure 4.1

[(1 Mark – [An/P,2])]

- a. 3 and 1
- b. 1 and 2
- c. 2 and 2
- d. 4 and 3



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

Choose... ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Choose... ×

Total Time Remaining: 0:00:00

**Question 4**

Partially correct

Mark 0 out of 1

 Flag question

Say True or False :

All the leaf nodes in the B-Tree must not be present at the same level

[(1 Mark – [U/C,2])]

 a. True b. False ×**1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?** No ×**2. Whether the assessment was relevant to the video and discussion made in the class/discourse forum?** Yes ✓

Total Time Remaining: 0:00:00



**Question 5**

Partially correct

Mark 1 out of 1

 Flag question

In the given scenario, the Employee id in Figure 4.1 is considered as the index to store the record pointing to the B-TREE. Identify in which order the database index must be sorted.

[(1 Mark – [An/C,2])]

- a. Descending order
- b. Randomized order
- c. Ascending order
- d. None of the above



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

Choose... ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Choose... ×

Total Time Remaining: 0:00:00



Total Time Remaining: 0:00:00

**Question 6**

Partially correct

Mark 0 out of 1

Flag question

The Heap tree of the SIM Card Store as shown in figure 4.2 have "n" customers already, and the Manager wishes to insert n more customers(not necessarily one after another) into this heap. Find the total time required.

- a.  $\theta(n^2)$
- b.  $\theta(n \log n)$
- c.  $\theta(n)$
- d.  $\theta(\log n)$

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

No  ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Yes  ✓

Total Time Remaining: 0:00:00

**Question 7**

Partially correct

Mark 0 out of 1

Flag question

Considering the figure as shown in figure 4.2 Find the array structure given Heap Tree.

[1Mark , An/C]

a.

3	4	2	1
---	---	---	---

b.

4	3	2	1
---	---	---	---

c.

1	2	3	4
---	---	---	---

d.

2	1	3	4
---	---	---	---



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

No	◆	✗
----	---	---

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Yes	◆	✓
-----	---	---



**Question 8**

Partially correct

Mark 0 out of 1

Flag question

In the sim card store if a new person namely "5" enters who have the highest priority than the other persons who are standing in the queue. Find the heap structure used.

(1 Mark – [An/P,2])

 a. Min heap b. Priority Queue c. Max Heap d. Binary Heap

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

2. Whether the assessment was relevant to the video and discussion made in class/discourse forum?

Total Time Remaining: 0:00:00

Question 9

Not answered

Marked out of 1

 Flag question

Analyze the figure 4.3 given below and find whether it is a complete binary tree.

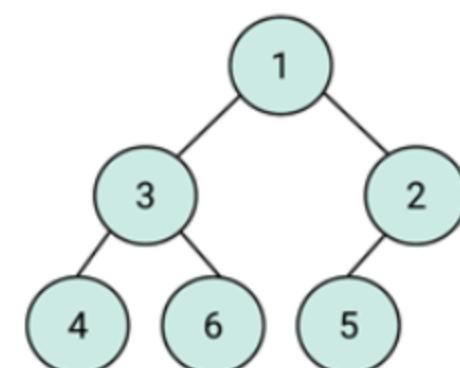


Figure 4.3

- a. True
- b. False

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 Choose... ▾

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 Choose... ▾

Total Time Remaining: 0:00:00

Information

Flag question

[120]

Sara and Lara are tourists from United States of America to India. After their long visit to different places in the country, they are currently in Erode district, Sathyamangalam. They planned to visit different places in and around Sathyamangalam. They use to travel with their own four-wheeler. Since they are new to the place, they don't prefer any tourist guides and rely upon Google map to their travel. While travelling in the middle, they may visit nearby petrol bunks and hotels. The places they planned to visit and the travel route is depicted in the below figure 1. Assume that they are currently in BIT.

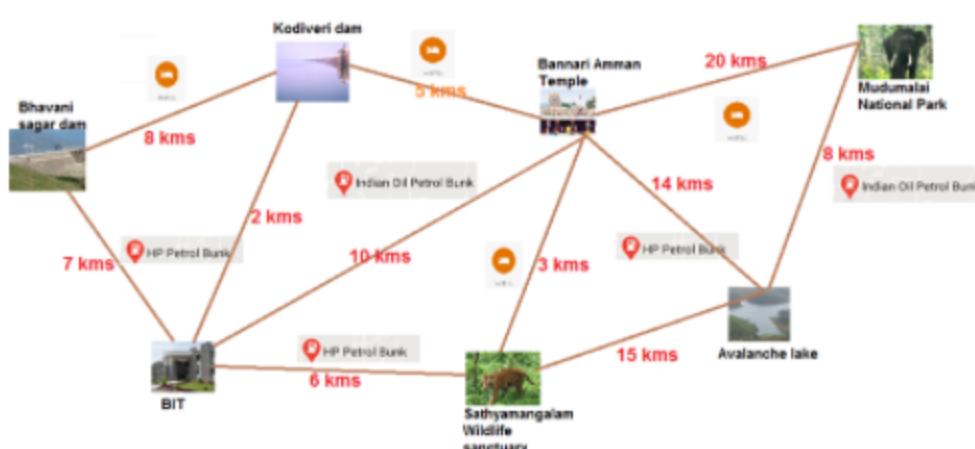


Fig.1 Google map view of the places in and around Sathyamangalam

Answer the following questions using the above scenario

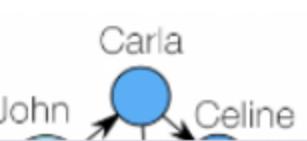
Total Time Remaining: 0:00:00

Information

Flag question

[600] [120]

A Social Network consists of two components: - a list of actors composing the network and a list of relation they have with the users. The representation of a simple module of a social network based on their interaction between the users is depicted below.



Flag question

A Social Network consists of two components: - a list of actors composing the network and a list of relation they have with the users. The representation of a simple module of a social network based on their interaction between the users is depicted below.

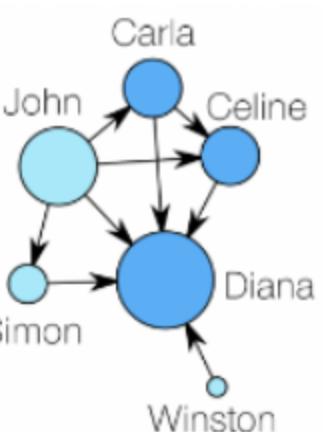


Figure : 01

Based on the above scenario answer the following questions:

**Question 1**

Complete

Mark 1 out of 1

Flag question

**[601] [SO1] [30]**

Identify the representation given in Figure:01

(1 Mark – [U/C, 1])

Select one:

- A. Social Network – File System
- B. Social Network - Database
- C. Social Network - Tree
- D. Social Network - Graph

The correct answer is:  
Social Network - Graph



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Events

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The correct answer is:

30

**Question 4**

Complete

Mark 1 out of 1

Flag question

**[605] [SO2] [60]**

Which of the following statements is/are TRUE for an undirected graph?

- A: Number of odd degree vertices is even
  - B: Sum of degrees of all vertices is even
- (1 Mark – [U/C,1])

Select one:

- A. A only
- B. Neither A nor B
- C. Both A and B
- D. B only

The correct answer is:

Both A and B

**Question 5**

Complete

Mark 0 out of 1

Flag question

**[606] [SO2] [90]**

Identify the time complexity to calculate the number of edges in a graph which stored its information in the form of an adjacency matrix.

(1 Mark – [An/C,2])

Select one:

- A. O(E<sup>2</sup>)
- B. O(V)
- C. O(E)
- D. O(V<sup>2</sup>)



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- B. O(V)
- C. O(E)
- D. O(V2)

The correct answer is:  
O(V)

**Question 6**

Complete

Mark 0 out of 2

Flag question

**[607] [SO2] [120]**

Derive the adjacency array for the vertex John given in Figure:01

(2 Mark – [Ap/C, 1])

Select one:

 A.

Celine Diana Winston

 B.

Simon Diana Winston

 C.

Carla Celine Diana

 D.

Carla Diana Simon

The correct answer is:

Complete  
Mark 0 out of 2  
Flag question

Derive the adjacency array for the vertex John given in Figure:01  
(2 Mark – [Ap/C, 1])

Select one:

A.

Celine Diana Winston

B.

Simon Diana Winston

C.

Carla Celine Diana

D.

Carla Diana Simon

The correct answer is:

Carla Diana Simon

Question 7

Complete  
Mark 0 out of 2  
Flag question

[608] [S02] [150]

A graph can be represented using incident matrix. In this matrix, rows represent vertices and columns represent edges which are filled with 0,-1, and 1. Where 0 represents that the row edge is not connected with column vertex. 1 represents that the row is connected as the outgoing edge to the column vertex and -1 represents that the row edge is connected as the incoming edge to column vertex.

Derive the equivalent incident matrix for the reduced graph given in Figure:02 below



## Question 7

Complete

Mark 0 out of 2

 Flag question

[608] [SO2] [150]

A graph can be represented using incident matrix. In this matrix, rows represent vertices and columns represent edges which are filled with 0,-1, and 1. Where 0 represents that the row edge is not connected with column vertex. 1 represents that the row is connected as the outgoing edge to the column vertex and -1 represents that the row edge is connected as the incoming edge to column vertex.

Derive the equivalent incident matrix for the reduced graph given in Figure:02 below

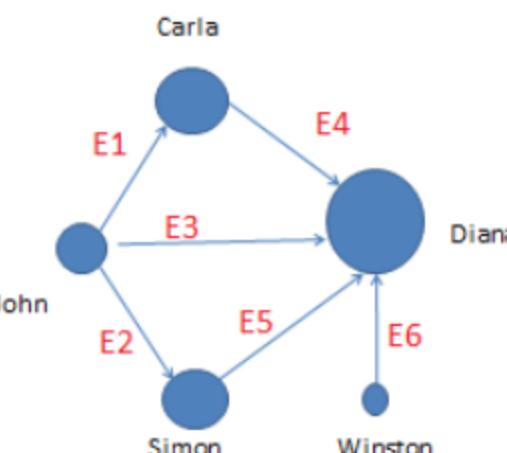


Figure:02

(2 Mark – [Ap/C,2]).

Select one:

 A.

	E1	E2	E3	E4	E5	E6
Simon	1	-1	1	1	0	1
John	0	0	0	1	1	1
Carla	-1	1	1	0	1	1
Diana	1	1	-1	-1	-1	-1
Winston	1	1	1	1	1	0

 B.

	E1	E2	E3	E4	E5	E6
Simon	0	1	0	0	-1	0
John	1	1	1	0	0	0
Carla	1	0	0	-1	0	0
Diana	0	0	-1	1	-1	1
Winston	0	0	0	0	0	-1

 C.

E1 E2 E3 E4 E5 E6

B.

E1 E2 E3 E4 E5 E6

Simon	0	1	0	0	-1	0
John	1	1	1	0	0	0
Carla	1	0	0	-1	0	0
Diana	0	0	-1	1	-1	1
Winston	0	0	0	0	0	-1

 C.

E1 E2 E3 E4 E5 E6

Simon	0	-1	0	0	1	0
John	1	1	1	0	0	0
Carla	-1	0	0	1	0	0
Diana	0	0	-1	-1	-1	-1
Winston	0	0	0	0	0	1

 D.

E1 E2 E3 E4 E5 E6

Simon	0	-1	0	0	0	0
John	1	0	-1	0	0	0
Carla	-1	0	0	1	0	0
Diana	1	0	0	1	0	1
Winston	0	0	0	0	0	1

 E.

The correct answer is:

E1 E2 E3 E4 E5 E6

Simon	0	-1	0	0	1	0
John	1	1	1	0	0	0
Carla	-1	0	0	1	0	0
Diana	0	0	-1	-1	-1	-1
Winston	0	0	0	0	0	1

Question 8

Complete

Mark 0 out of 1

Flag question

[603] [SO1] [30]

The representation given in Figure: 01 is regular. State True or False

(1 Mark – [U/C,1])

Select one:

- True  
 False

The correct answer is 'False'.

Question 9

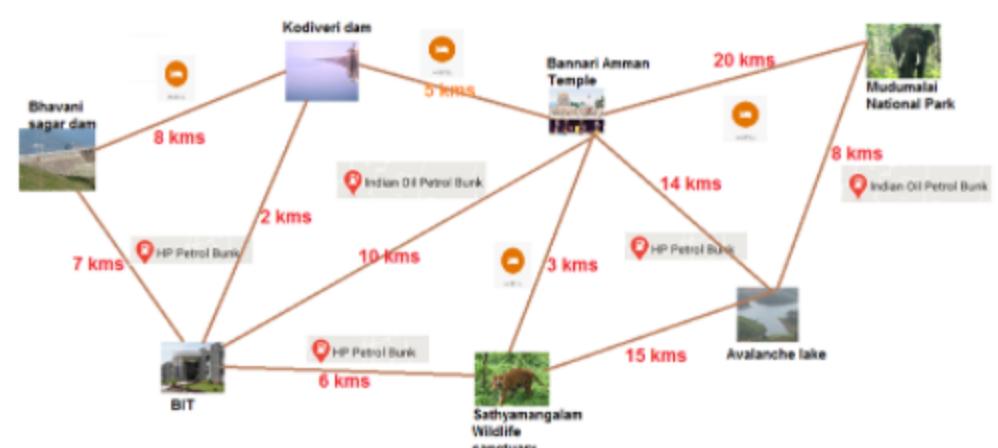
Complete

Mark 1 out of 1

Flag question

[101] [SO-1] [60]

From given figure, it is understood that the above Google map view is similar to graph data structure. Identify the type of graph from the Google map view.



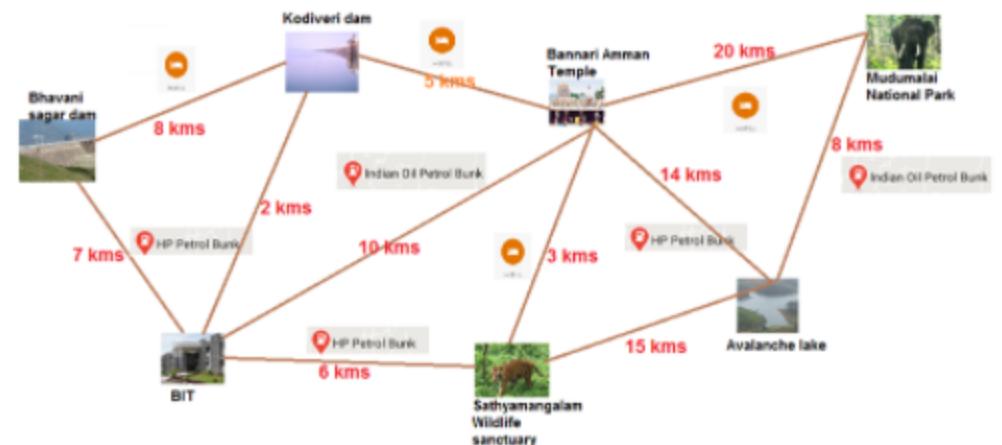
(1 Mark-[An/P,2])

Total Time Remaining: 0:00:00

Complete  
Mark 1 out of 1

Flag  
question

From given figure, it is understood that the above Google map view is similar to graph data structure. Identify the type of graph from the Google map view.



(1 Mark-[An/P,2])

Total Time Remaining: 0:00:00

Select one:

- A. Cyclic graph
- B. Directed graph
- C. Undirected, unweighted graph
- D. Weighted undirected graph
- E. Weighted graph

The correct answer is:

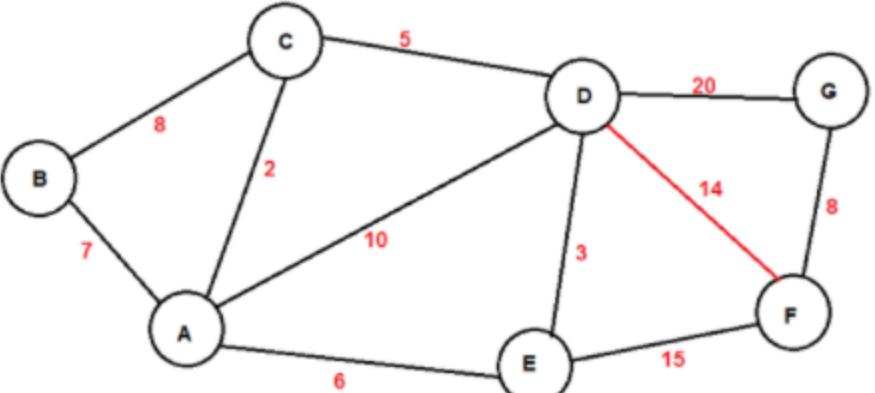
Weighted undirected graph

Complete

Mark 1 out of 1

Flag question

- From the given figure, determine the vertices and edges of the Google map view.



(1 Mark-[Ap/P,2])

Total Time Remaining: 0:00:00

Select one or more:

- A.  $V=\{A,B,C,D,E,F\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- B.  $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- C.  $V=\{A,B,C,D,E,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EB,DF,FG,GD\}$
- D.  $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AF,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- E.  $V=\{A,B,C,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$

The correct answer is:

 $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$

## Question 11

Not answered

Marked out of 3

Flag question

**[103] [SO-2] [180]**

- The below figure is drawn based on the routes travelled by Sara and Lara. Represent the graph by means of an adjacency matrix for the routes travelled.



- Fig.2 Google map with directions

(3 Marks-[Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

A. A B C D E F G

A	B	C	D	E	F	G	
A	0	0	2	10	6	0	0
B	7	0	0	0	0	0	0
C	0	8	0	5	0	0	0
D	0	0	0	0	3	14	20
E	0	0	0	0	0	15	0
F	0	0	0	0	0	0	8
G	0	0	0	0	0	0	0

B. A B C D E F G

A	B	C	D	E	F	G	
A	0	0	2	10	6	0	0
B	7	0	0	0	0	0	0
C	0	8	0	5	0	0	0
D	0	0	0	0	3	14	20
E	0	0	0	0	0	15	0
F	0	0	0	0	0	0	8
G	0	0	0	0	0	0	0

A	0	0	0	0	0	0	0
B	0	0	0	0	0	0	0
C	0	0	0	0	0	0	0
D	0	0	0	0	0	0	0
E	0	0	0	0	0	0	0
F	0	0	0	0	0	0	0
G	0	0	0	0	0	0	0

C.

A	B	C	D	E	F	G
0	0	2	10	6	0	0
7	0	0	0	0	0	0
0	8	0	5	0	0	0
0	0	0	0	3	14	20
0	0	0	0	0	15	0
0	0	0	0	0	0	8
0	0	0	0	0	0	0

D.

A	B	C	D	E	F	G
0	0	2	10	6	0	0
7	0	0	0	0	0	0
0	8	0	5	0	0	0
0	0	0	0	3	14	20
0	0	0	0	0	15	0
0	0	0	0	0	0	8
0	0	0	0	0	0	0

E.

A	B	C	D	E	F	G
0	0	2	10	6	0	0
7	0	0	0	0	0	0
0	8	0	5	0	0	0
0	0	0	0	3	14	20
0	0	0	0	0	15	0
0	0	0	0	0	0	8
0	0	0	0	0	0	0

The correct answer is:

A	B	C	D	E	F	G
0	0	2	10	6	0	0
7	0	0	0	0	0	0
0	8	0	5	0	0	0
0	0	0	0	3	14	20
0	0	0	0	0	15	0
0	0	0	0	0	0	8
0	0	0	0	0	0	0

**Question 12**

Not answered

Marked out of 3

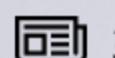
Flag question

**[104] [SO-2] [180]**

- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.



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**Question 12**

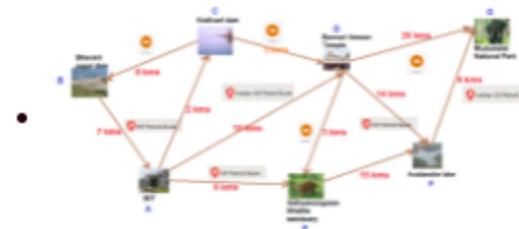
Not answered

Marked out of 3

Flag question

**[104] [SO-2] [180]**

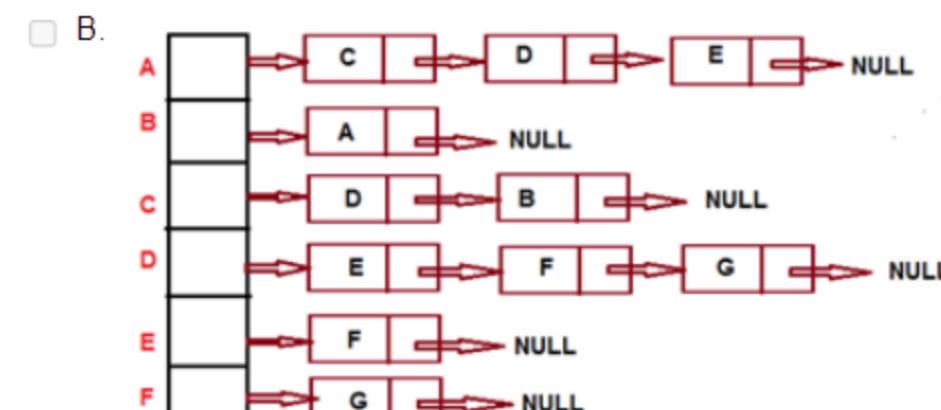
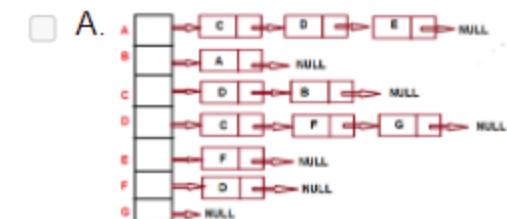
- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.



(3 Marks-[Ap/P,2])

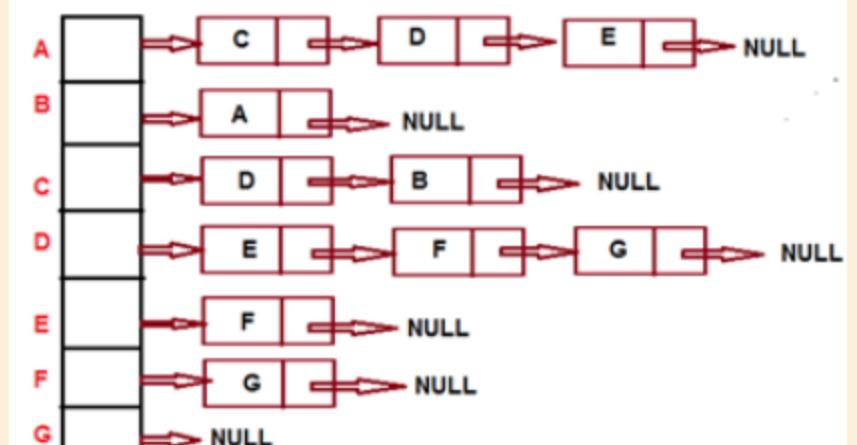
**Total Time Remaining: 0:00:00**

Select one or more:





The correct answer is:

**Question 13**

Not answered

Marked out of 2

Flag question

**[105] [SO-2] [180]**

- From the given graph, determine the indegree and outdegree for BIT and Bannari Amman temple respectively.



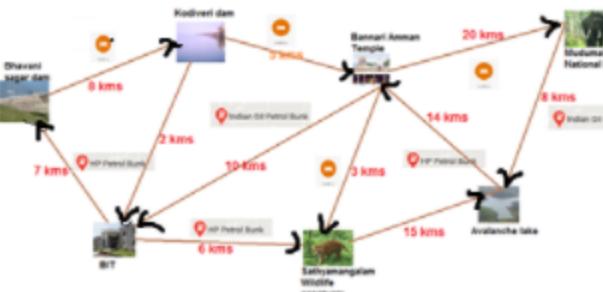
(2 Marks – [An/C,2])

**Total Time Remaining: 0:00:00**

Not answered  
Marked out of 2

Flag question

- From the given graph, determine the indegree and outdegree for BIT and Bannari Amman temple respectively.



(2 Marks – [An/C,2])

Total Time Remaining: 0:00:00

Select one or more:

- A. 2 and 2
- B. 0 and 2
- C. 2 and 3
- D. 3 and 0
- E. 2 and 0

The correct answer is:  
2 and 3

Information  
Flag question

Total Time Remaining: 0:00:00

[120]

Sara and Lara are tourists from United States of America to India. After their long visit to different places in the country, they are currently in Erode district, Sathyamangalam. They planned to visit different places in and around Sathyamangalam. They use to travel with their own four-wheeler. Since they are new to the place, they don't prefer any tourist guides and rely upon Google map to their travel. While travelling in the middle, they may visit nearby petrol bunks and hotels. The places they planned to visit and the travel route is depicted in the below figure 1. Assume that they are currently in BIT.

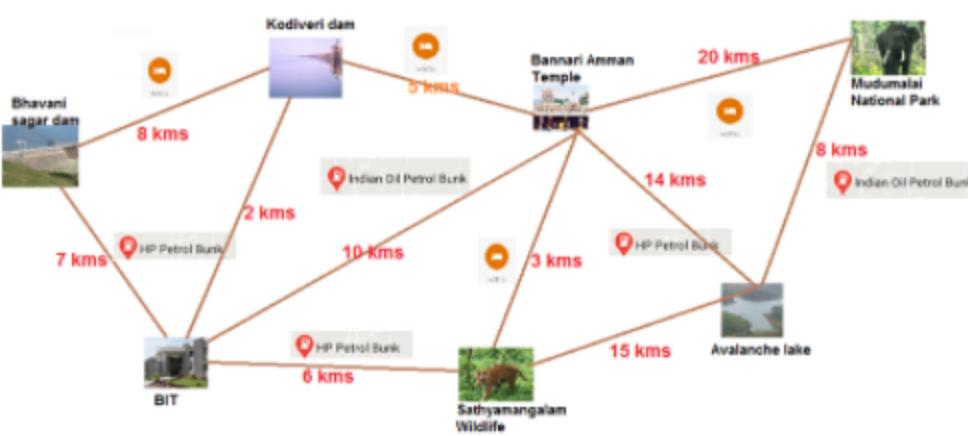


Fig.1 Google map view of the places in and around Sathyamangalam

Answer the following questions using the above scenario

Question 1  
Correct  
Mark 2 out of 2  
Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

Questions  
1 ✓ 2 ✓ 3 ✗ 4 ✓

Show one page at a time

Finish review

Correct

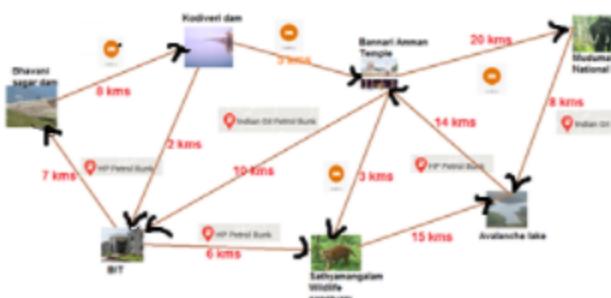
Mark 2 out of 2

Flag question

Total Time Remaining: 0:00:00

[103] [SO-2] [180]

- Identify the data structure used for implementing breadth first traversal (BFT) to keep track of visited places in the given Google map



(2 Marks – [An/C,2])

Select one or more:

- A. Tree ✗
- B. Stack ✗
- C. Array ✗
- D. **Linked list** ✗
- E. Queue ✓

Question 2

Correct

Mark 2 out of 2

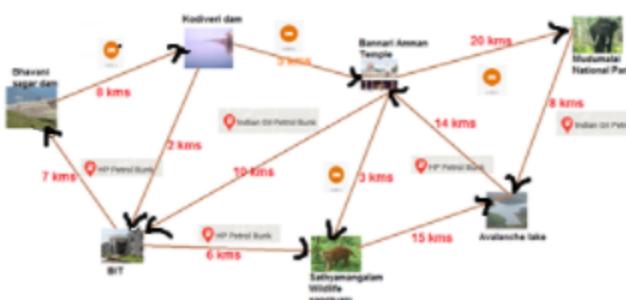
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[104] [SO-2] [180]

- Identify the data structure used for implementing depth first traversal (DFT) to keep track of visited places in the given Google map.



(2 Marks – [An/C,2])

Select one or more:

- A. Array ✗
- B. Queue ✗
- C. Tree ✗
- D. Linked List ✗
- E. Stack ✓

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Incorrect  
Mark 0 out of 3  
 Flag question

[Click here to view scenario](#)

Total Time Remaining: 0:00:00

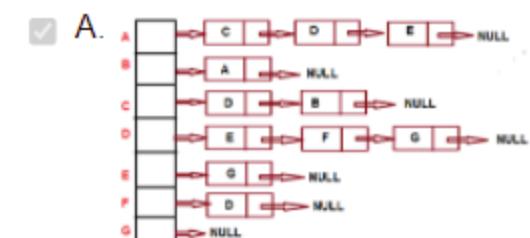
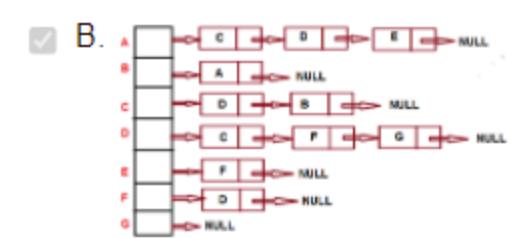
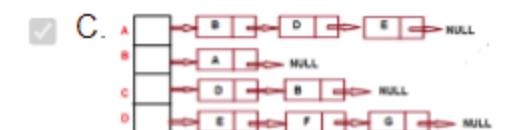
[102] [SO-2] [180]

- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.



(3 Marks-[Ap/P,2])

Select one or more:

- A. 
- B. 
- C. 



Type here to search



30°C

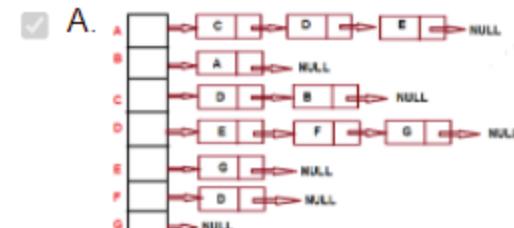


ENG IN

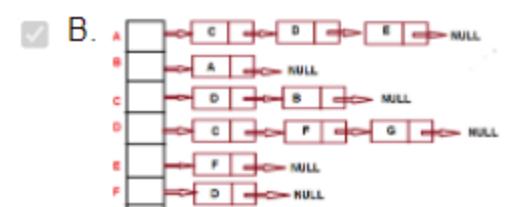
10:56 AM  
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(3 Marks-[Ap/P,2])

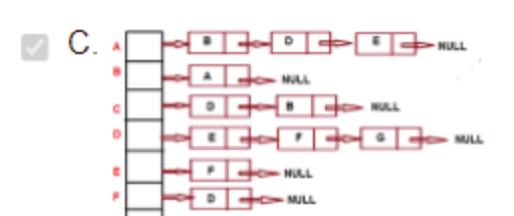
Select one or more:



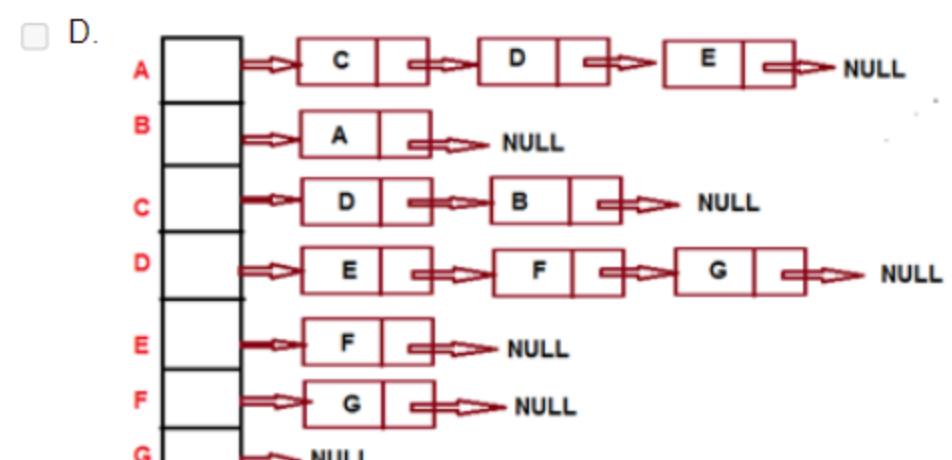
X



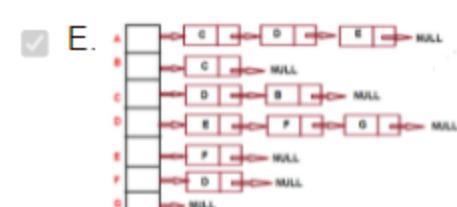
X



X



^



X

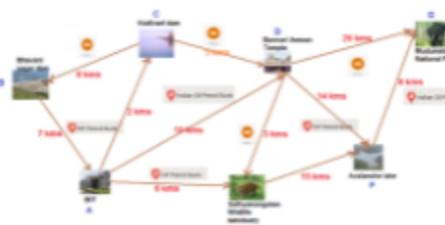
**Question 4**

Correct

Mark 3 out of 3

 Flag question[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[101] [SO-2] [180]**

- The below figure is drawn based on the routes travelled by Sara and Lara. Represent the graph by means of an adjacency matrix for the routes travelled.



- Fig.2 Google map with directions

(3 Marks-[Ap/P,2])

Select one or more:



A. A B C D E F G

A	0	0	2	10	6	0	0
B	7	0	0	0	0	0	0
C	0	8	0	5	0	0	0
D	0	0	0	0	3	14	20
E	0	0	0	0	0	15	0
F	0	0	0	0	0	0	8
G	0	0	0	0	0	0	0







**Question 2**

Complete

Mark 3 out of 3

Flag question

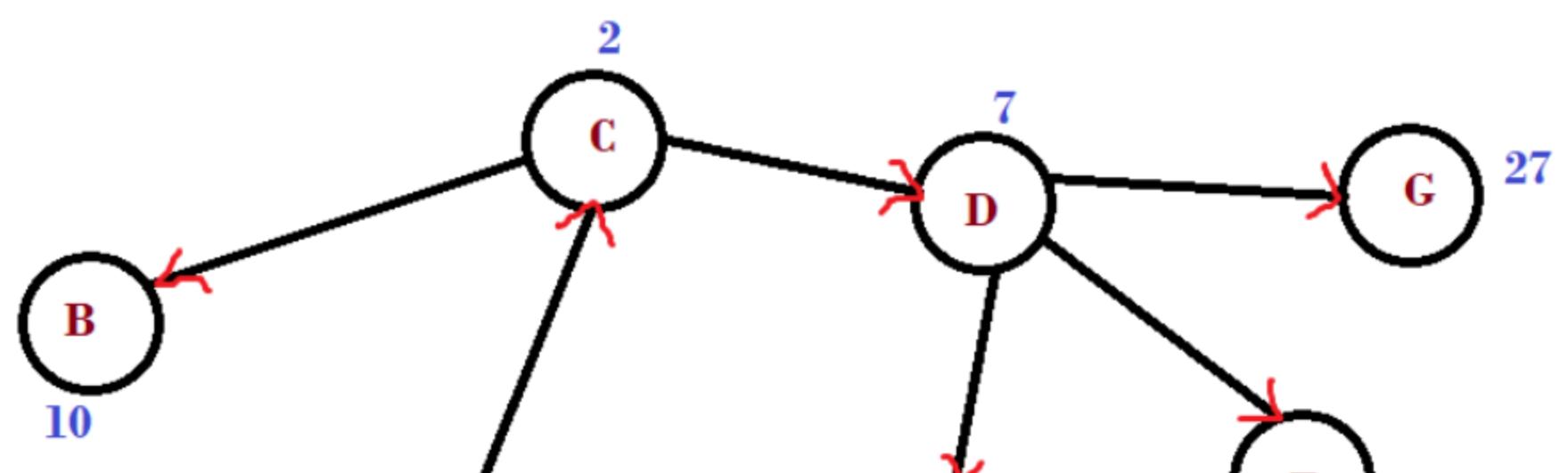
**[106] [SO-2][180]**

- Consider A(BIT) as the source vertex, find the final shortest path for the given graph.



(3 Marks-[An/C,2])

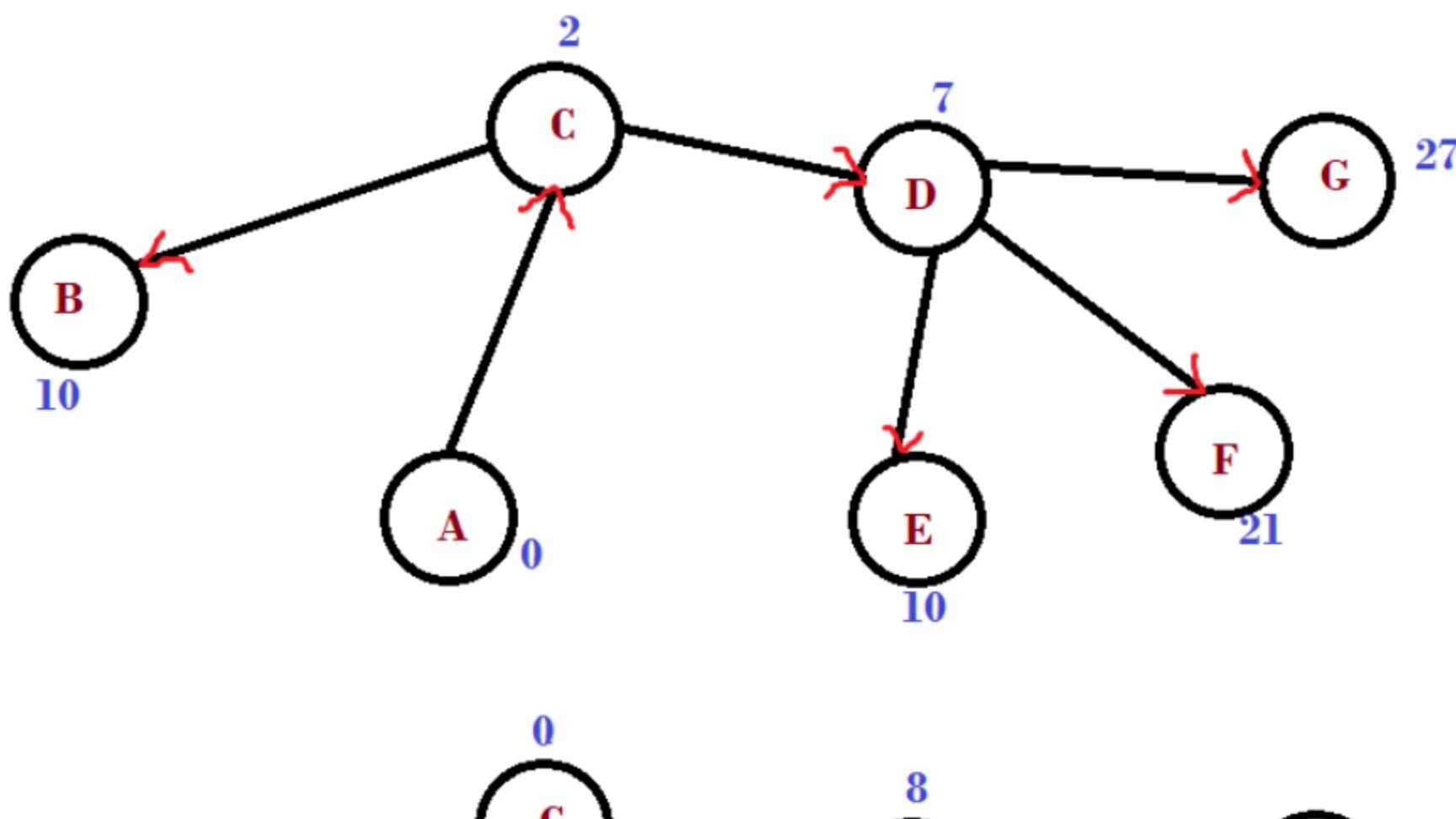
Select one:

 A.



(3 Marks-[An/C,2])

Select one:

 A. B.

Question 3

Complete

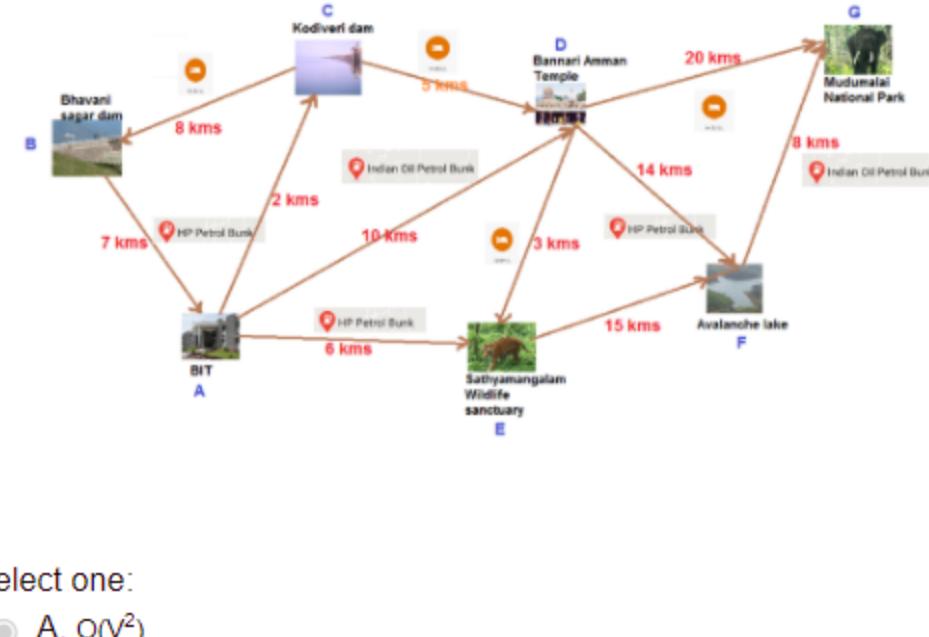
Mark 1 out of 1

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[105] [SO-2][60]

- Consider that the given graph is represented using adjacency matrix. Identify the time complexity for the given graph.



(1 Mark-[An/C,2])

Select one:

- A.  $O(V^2)$
- B.  $O(E \log V)$
- C.  $O(E^2)$
- D.  $O(E+V)$
- E.  $O(V)$

Question 4

Complete

Mark 1 out of 1

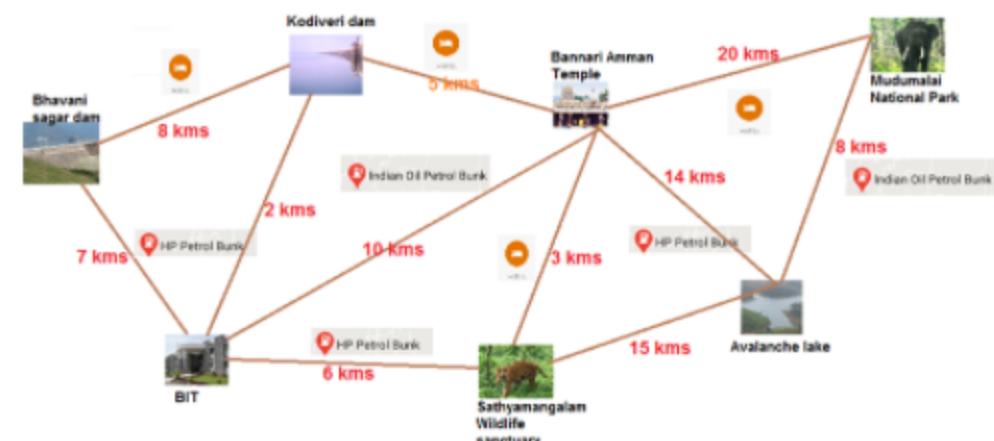
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[102] [SO-3] [60]

The given Google map view is used to solve single source shortest path problem. State True or False.



(1 Mark – [An/C,2])

Select one:

- True  
 False



Question 6

Complete

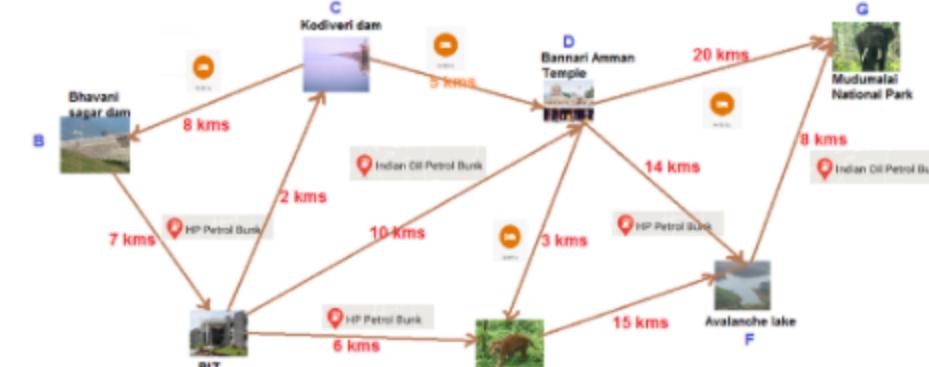
Mark 2 out of 2

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103][SO-2][180]

- Which of the following table corresponds to the initial configuration for finding the optimal path from BIT using Dijkstra's algorithm in the given Google route map?



(2 Marks-[An/C,2])

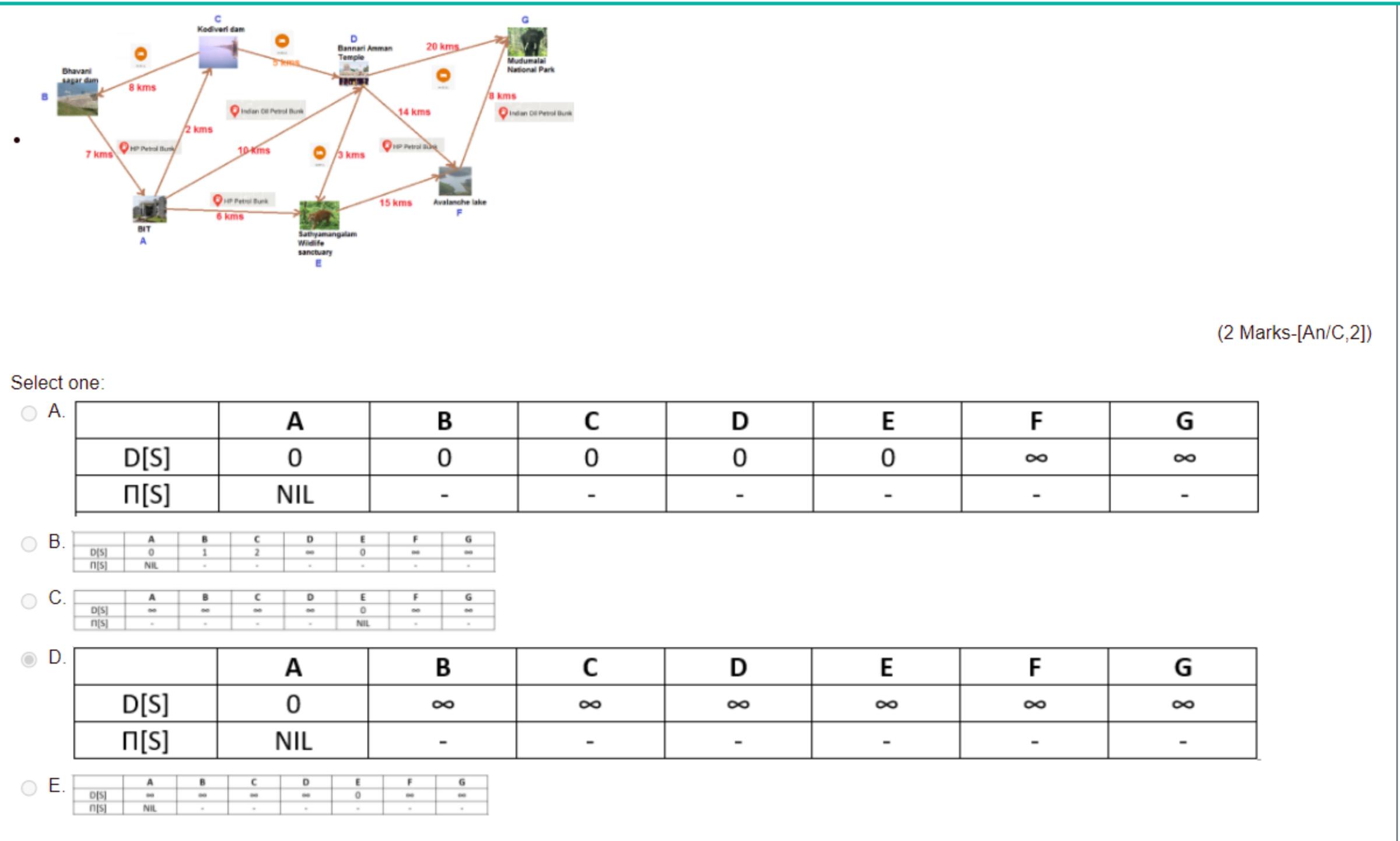
Select one:

 A.

	A	B	C	D	E	F	G
D[S]	0	0	0	0	0	$\infty$	$\infty$
$\Pi[S]$	NIL	-	-	-	-	-	-

 B.

	A	B	C	D	E	F	G
D[S]	0	1	2	$\infty$	0	$\infty$	$\infty$
$\Pi[S]$	NIL	-	-	-	-	-	-



Finish review



Question 1

Complete

Mark 2 out of 2

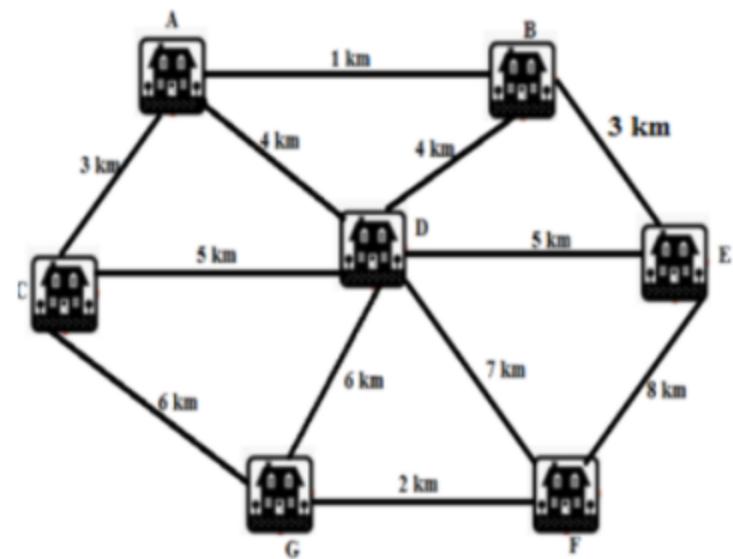
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103][SO-2][180]

- The minimal cost obtained for laying cables for all the vilas in the given site map graph using Kruskal's algorithms is



(2 Marks-[An/C,2])

Select one:

- A. 19  
 B. 10  
 C. 5

Question 2

Complete

Mark 1 out of 1

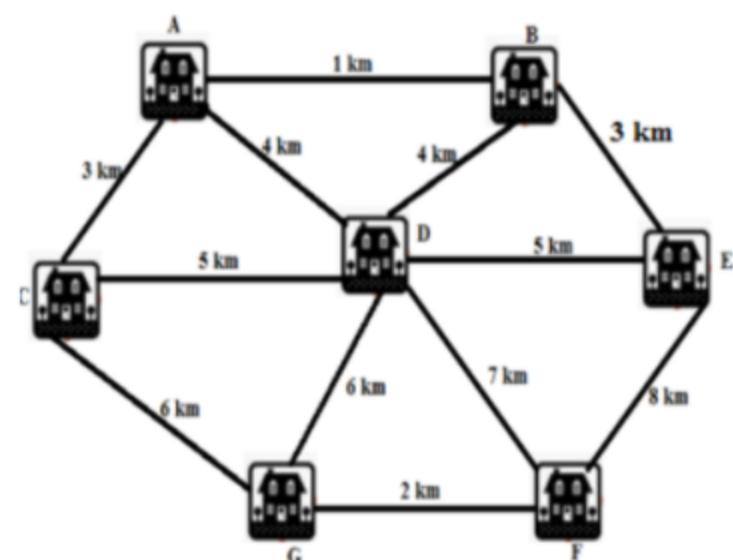
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[101] [SO-1] [60]

The minimum cost route (minimal spanning tree) for laying the cables in the given graph without forming any cycles can be obtained using:



(1 Mark-[U/C,2])

Select one:

- A. Dijkstra's algorithm
- B. Prim's algorithm
- C. Kruskal's algorithm
- D. Bellman Ford algorithm

D. Bellman Ford algorithm

Question 3

Complete

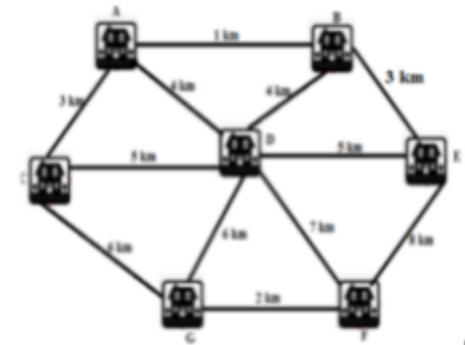
Mark 0 out of 3

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[105] [SO-2][180]

The minimum cost route (minimal spanning tree) in the site map of GG constructions for laying cables is:



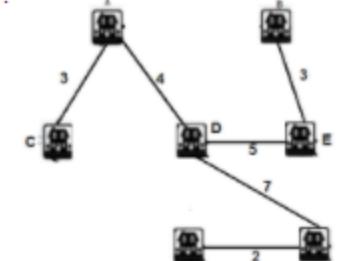
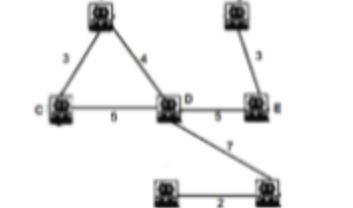
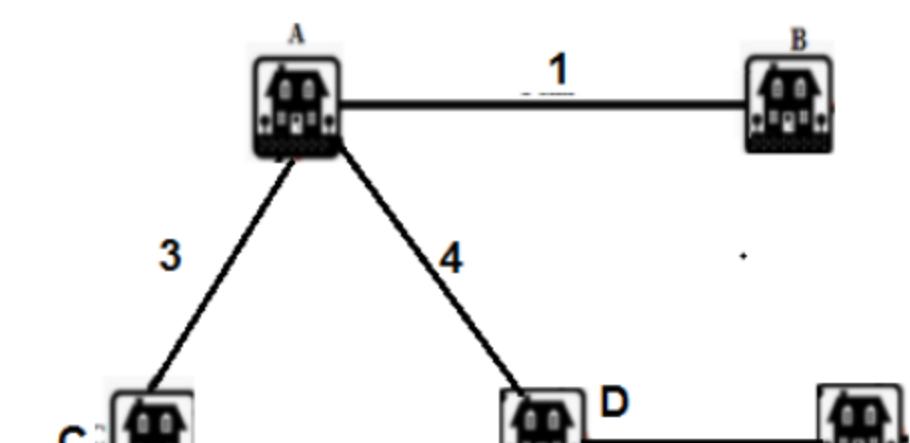
(3 Marks-[An/C,2])

Select one:

 A.

(3 Marks-[An/C,2])

Select one:

 A. B. C. D.

Question 4

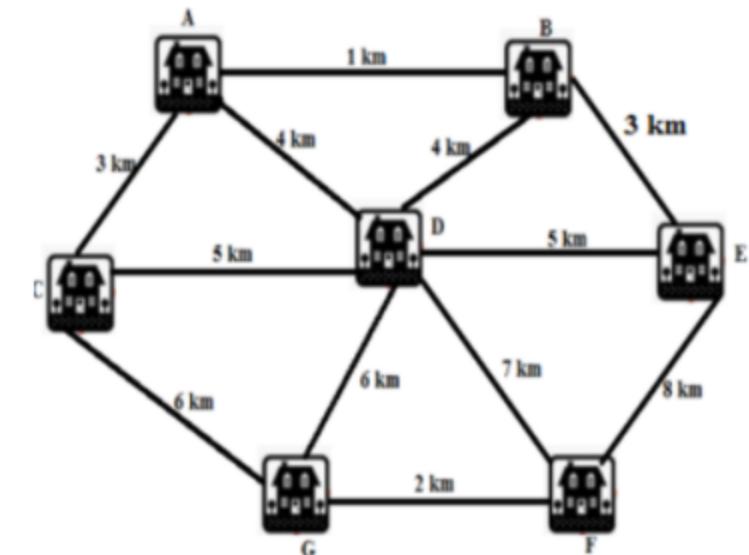
Complete

Mark 0 out of 2

Flag question

[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[104] [SO-2][180]**

- The minimal cost obtained for laying cables for all the villas in the given site map graph using prim's algorithms is:



(2 Marks-[Ap/P,2])

Select one:

- A. 21
- B. 20
- C. 19
- D. 23

Question 5

Complete

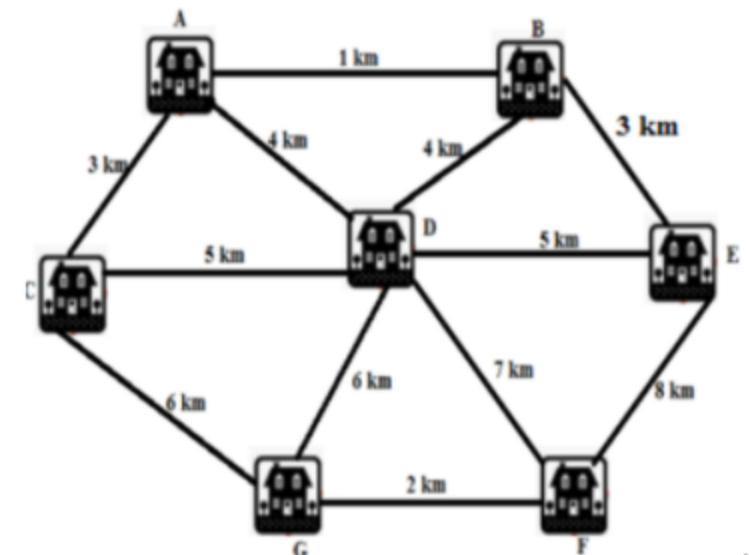
Mark 1 out of 1

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[106] [SO-2][60]

- Constructing minimal spanning tree using route distance factor in the given site map of GG constructions can be considered as an example of:



(1 Mark-[An/C,2])

Select one:

- A. Divide and Conquer technique
- B. Greedy algorithm
- C. Dynamic programming
- D. Backtracking

**Question 6**

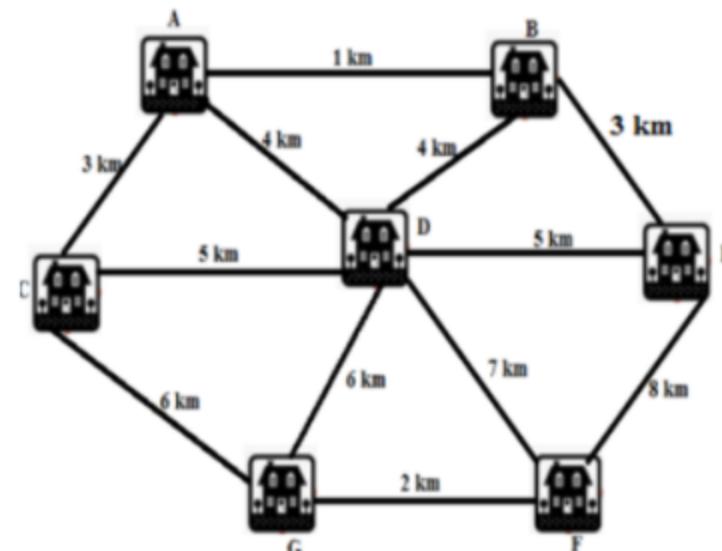
Complete

Mark 1 out of 1

Flag question

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[102] [SO-3] [60]**

If the given cable laying graph is unweighted, or if all edges have the same weight, then any spanning tree can be considered as a minimum spanning tree:



(1 Mark – [An/C,2])

Select one:

 True False

## Total Time Remaining: 0:00:00

**[120]**

Consider that there are 50 students in a library. All the students are busy with their projects. There is an emergency call for a student named Suresh in the Library. The Librarian have to search the student Suresh and ask him to go out of the library without disturbing the other students. The below figure 1 provides an illustration about the students seated in the Library.

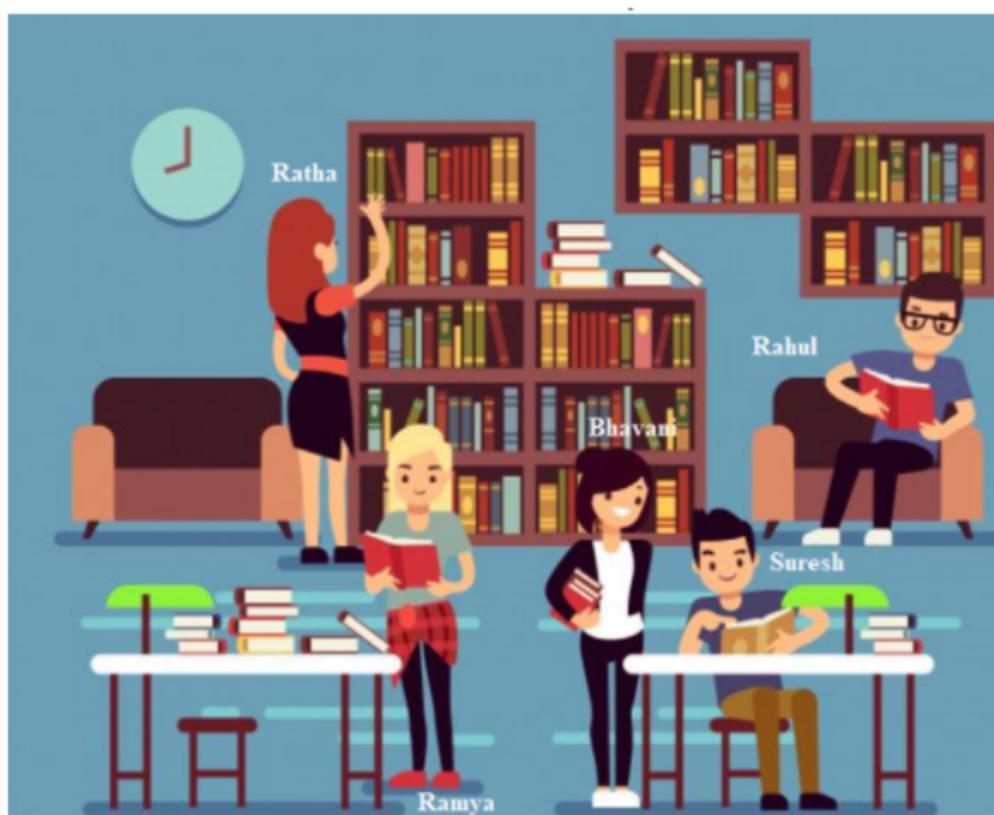


Fig.1 Illustration about the Students in Library

Answer the following questions using the above scenario

### Questions

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Show one page at a time

Finish review



Question ↴

Complete

Mark 0 out of 2

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Total Time Remaining: 0:00:00

[102][SO-2][120]

- From the below options, determine the correct pseudocode for finding the student Suresh in the library.

(2 Marks-[An/C,2])

Select one:

 A. procedure Suresh\_search (list, value)

```
for each item in the list
    if match item != value
        return the item's location
    end if
end for
```

```
• end procedure
```

 B. procedure Suresh\_search (list, value)

```
for each item in the list
    if match item < value
        return the item's location
    end if
end for
```

```
end procedure
```

 C. procedure Suresh\_search (list, value)

```
for each item in the list
```

```
for each item in the list
  if match item != value
    return the item's location
  end if
end for
```

• end procedure

B. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item < value
    return the item's location
  end if
end for
```

end procedure

C. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item > value
    return the item's location
  end if
end for
```

end procedure

D. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item == value
    return the item's location
  end if
end for
```

end procedure

end procedure

**Question 3**

Complete

Mark 1 out of 1

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103] [SO-2] 60

- Librarian first asked a boy, whether he is Suresh. If the boy is Suresh, then the time taken to find Suresh is equal to \_\_\_\_\_
- \_\_\_\_\_

(1 Mark-[An/C,2])

Select one:

- A. O(1)
- B. O(
- C. O(n<sup>2</sup>)
- D. O(2n)

**Question 4**

Complete

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00



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1/11/2022

- B. O<sup>2</sup>
- C. O(n<sup>2</sup>)
- D. O(2n)

Question 4

Complete

Mark 0 out of 1

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[106] [SO-3] [60]

- Instead of going and asking each student, librarian tries to apply some logic to search Suresh. As the students are seated alphabetically, librarian tries to find the middle student. If the middle-named student is Mathu, librarian then continues to find middle student starting with Mathu, leaving the students seated before Mathu. Identify the searching logic used by librarian to find Suresh.

(1 Mark-[An/C,2])

Select one:

- A. Interpolation search
- B. Binary search
- C. Jump search
- D. Linear search

Question 5

Complete

[Click here to view Scenario](#)

Type here to search



Select one:

- A. Interpolation search
- B. Binary search
- C. Jump search
- D. Linear search

**Question 5**

Complete

Mark 0 out of 1

Flag question

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[101] [SO-1] [60]**

Using the above scenario, suggest a technique that the librarian would follow to search and find the student Suresh.

(1 Mark-[U/C,2])

Select one:

- A. Jump search
- B. Interpolation search
- C. Exponential search
- D. Linear search

**Question 6**

Complete

Mark 0 out of 2

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00**

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D. Linear Search

**Question 6**

Complete

Mark 0 out of 2

 Flag question[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[104] [SO-3] [120]**

- Consider that students are seated in the Library according to the alphabetical order. In such case, if Librarian search Suresh, then it is easy to found him compared to unordered seating of the students. Determine the possible code snippet for searching Suresh if students are seated alphabetically.

(2 Marks-[Ap/P,2])

Select one:

**A.**  

```
public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            index = i;
        }
        if(data[i] > key)
        {
            index = i;
            break;
        }
        i++;
    }
    return index;
}
```

**B.**  

```
public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            index = i;
        }
        i++;
    }
    return index;
}
```

B.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            index = i;
        }
        i++;
    }
    return index;
}
```

C.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            index = i;
        }
        if(data[i] > key)
        {
            break;
        }
        i++;
    }
    return index;
}
```

D.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            break;
        }
        i++;
    }
    return index;
}
```

Question 7

Complete

Mark 2 out of 2

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

Question 7

Complete

Mark 2 out of 2

 Flag questionClick here to view Scenario

Total Time Remaining: 0:00:00

[107] [SO-3] [180]

Identify the code snippet for searching Suresh using the logic used by the librarian

(2 Marks-[An/C,2])

Select one:

 A. 

```
public static int iterative(int arr[], int key)
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high + low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid - 1;
        }
        else
        {
            high = mid + 1;
        }
    }
    return -1;
}
```

 B. 

```
public static int iterative(int arr[], int key)
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high + low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```



Type here to search



```
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```

C. public static int iterative(int arr[], int key)

```
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low == high)
    {
        mid = low + (high - low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid - 1;
        }
        else
        {
            high = mid + 1;
        }
    }
    return -1;
}
```

D. public static int iterative(int arr[], int key)

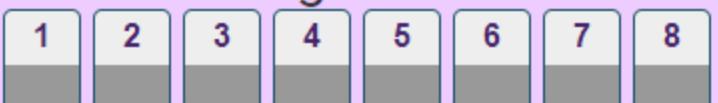
```
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high - low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```

**Total Time Remaining: 0:00:00****[120]**

Bannari Amman Institute of Technology uses Choice based technique to make the students select the faculty for the subjects on their own. For each course, list of faculty experts will be displayed. Students choose a faculty they wish from the list provided. The number of student's ratio per faculty is not limited. The below list categorizes the number of students selected choice based courses with respect to the faculty. Maximum of 9 courses are offered and the student counts per faculty are displayed. The Management wants to sort the students count according to the faculty using any sorting algorithm.

26 54 93 17 77 31 44 50 20

Answer the following questions using the above scenario

**Click here to view Scenario****Total Time Remaining: 0:00:00****[102][SO-2] [120]****New heading**

Show one page at a time

Finish review

Question 1

Complete

Mark 1 out of 1

Flag question

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Total Time Remaining: 0:00:00

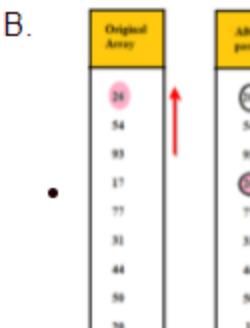
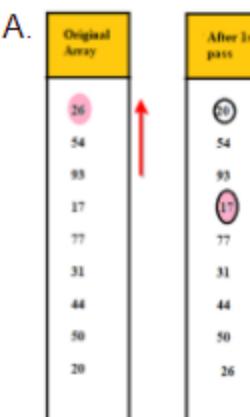
[102][SO-2] [120]

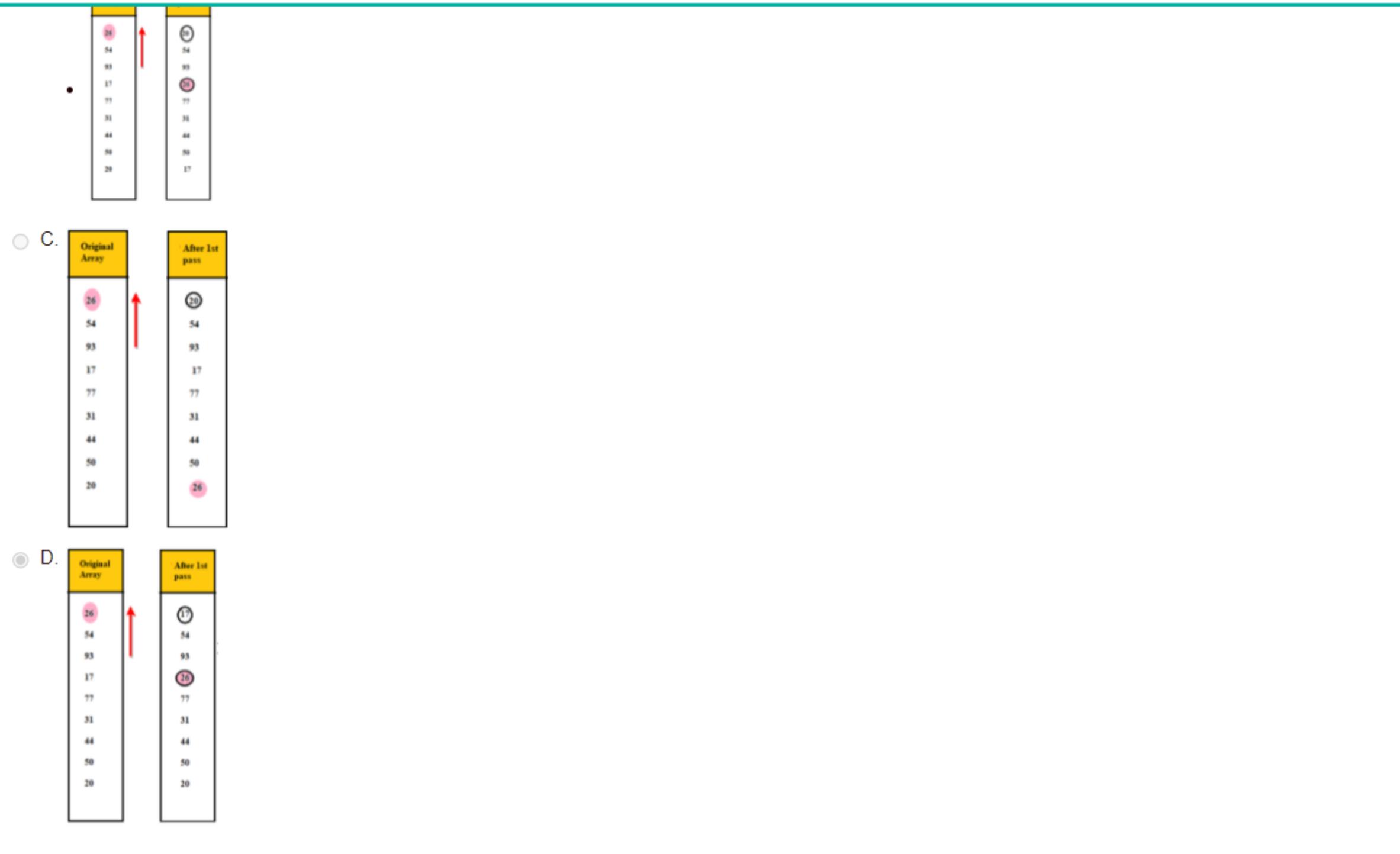
- From the below options, choose the result obtained after first iteration for the below students count using selection sort.

26 54 93 17 77 31 44 50 20

(1 Mark-[An/C,2])

Select one:





Question 2  
Complete

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17	77
31	31
44	44
50	50
20	20

Question 2  
Complete  
Mark 0 out of 2  
 Flag question

### Click here to view Scenario

Total Time Remaining: 0:00:00

[108] [SO-3] [180]

- Identify the suitable algorithm for sorting the students count using Bubble sort.

(2 Marks-[An/C,2])

Select one:

- A. `begin BubbleSort(list)`
- ```
for all elements of list
    if list[i] = list[i+1]
        swap(list[i], list[i+1])
    end if
end for

return list

end BubbleSort
```

```
        return list

    end BubbleSort

    ○ B. begin BubbleSort(list)

        for all elements of list
            if list[i] > list[i+2]
                swap(list[i], list[i+2])
            end if
        end for

        return list

    end BubbleSort

    ○ C. begin BubbleSort(list)

        for all elements of list
            if list[i] < list[i+1]
                swap(list[i], list[i+1])
            end if
        end for

        return list

    end BubbleSort

    ○ D. begin BubbleSort(list)

        for all elements of list
            if list[i] > list[i+1]
                swap(list[i], list[i+1])
            end if
        end for

        return list

    end BubbleSort
```

Question 3

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

[106] [SO-2] [60]

- If the management wants to extract the detail of the faculty who is chosen by maximum number of students, \_\_\_\_\_ sorting technique is preferable to extract the result at the first iteration itself

(1 Mark-[An/C,2])

Select one:

- A. Selection sort
- B. Quick sort
- C. Merge sort
- D. Bubble sort

Question 4

Complete

Mark 0 out of 2

Flag question

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Total Time Remaining: 0:00:00



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2.i+1 to n-2

3.list[j] &lt; list[min]

 D. 1.1 to n-1

2.i+1 to n

3.list[j] &lt; list[min]

**Question 5**

Complete

Mark 0 out of 1

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

**[103] [SO-2] [60]**

- The number of iterations taken place to completely sort the below students count array using selection sort is \_\_\_\_\_.
- 

26 54 93 17 77 31 44 50 20

(1 Mark-[An/C,2])

Select one:

- A. n
- B. 10
- C. N2
- D. N-1



D. N-1

**Question 6**

Not answered

Marked out of 1

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[107] [SO-3] [60]

Determine the best case and worst case complexity for Selection and Bubble sort respectively.

(1 Mark-[An/C,2])

Select one:

- A.  $O(n^2)$  and  $O(n^2)$
- B.  $O(n^2)$  and  $O(\log n)$
- C.  $O(\frac{n}{2})$  and  $O(n^2)$
- D.  $O(n^2)$  and  $O(\frac{n}{2})$

**Question 7**

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

Question 7

Not answered

Marked out of 1

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Total Time Remaining: 0:00:00

[104] [SO-3] [60]

- Selection sort is not a stable sorting algorithm. State True or False.

(1 Mark – [An/C,2])

Select one:

- True
- False

Question 8

Not answered

Marked out of 1

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Select one:  
 True  
 False

Question 8

Not answered

Marked out of 1

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[101] [SO-1] [60]

If the management wants to extract the detail of the faculty who is chosen by minimum number of students, \_\_\_\_\_ sorting technique is preferable to extract the result at the first iteration itself.

(1 Mark-[U/C,2])

Select one:

- A. Quick sort
- B. Merge sort
- C. Selection sort
- D. Bubble sort

Finish review



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120

For the T20 world cup, a list of batsmen has to be prepared with their country code and their T20 career runs. The list contains data of **N** batsmen runs. Number of countries may range from 1 to N and each country has its unique code. The list is pretty unorganized. Virat and Maxwell do not like it. They decided to group all the players belonging to same country together. Virat likes arranging stuffs in ascending order and wants the data list to be sorted in ascending order, while Maxwell prefers descending order. As they are good friends, they mutually agreed that country codes should be sorted in ascending order and for each country code, the runs of all the batsmen for that particular country should be sorted in descending order. As the mighty clash between Australia and India is going to start shortly, Virat and Maxwell don't have the time to organize the list. Can you help them to sort the list, the way they want?

Country Codes:

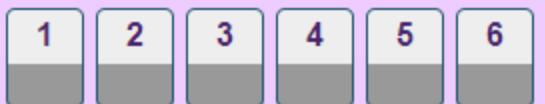
4 3 2 1 0 1 2 1 5 6

Players runs:

14 33 27 10 35 19 42 44

Answer the following questions using the above scenario.

## Questions



Show one page at a time

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Question 1

Complete

Mark 0 out of 2

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**Question 1**

Complete

Mark 0 out of 2

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Total Time Remaining: 0:00:00

[102][SO 2] [240]

- From the below options, choose the result obtained after first iteration for the below players run details using insertion sort. (Note: Players run count has to be sorted in descending order)
- |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 14 | 33 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|

(2 Marks-[An/C,2])

Select one:

- A. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 36 | 27 | 19 | 14 | 10 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- B. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 36 | 27 | 10 | 14 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- C. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 14 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- D. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 14 | 33 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|

**Question 2**

Complete

Mark 1 out of 1

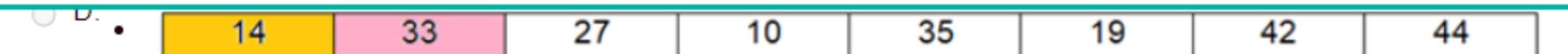
[Click here to view Scenario](#)

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## Question 2

Complete

Mark 1 out of 1

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[106] [SO-2] [120]

- For the below array, if Shell sort is used to sort the elements the best case complexity obtained is \_\_\_\_\_.
- |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|

(1 Mark-[An/C,2])

Select one:

- A.  $O(1)$
- B.  $O(n \log n)$
- C.  $O(\frac{n}{\log n})$
- D.  $O(n^2)$

## Question 3

Complete

Mark 3 out of 3

Flag question

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Complete  
Mark 3 out of 3  
Flag question

Total Time Remaining: 0:00:00

[103] [SO-2] 240

- The below is the incomplete pseudocode for sorting the country codes using Insertion sort. Complete the pseudocode with suitable logic listed below.

```
Insertion Sort(A,n)
{
    for i ← _____
    {
        value ← a[i]
        hole ← i
        while(hole>0 && _____)
        {
            A[hole] ← A[hole-1]
            hole ← hole-1
        }
        A[hole] ← value
    }
}
```

(3 Marks-[An/C,2])

Select one:

- A. 1 to n  
2.A[hole-1]<value
- B. 1 to n-1  
2.A[hole-1]>value
- C. 1 to n



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- A. 1.1 to n  
2.A[hole-1]<value
- B. 1.1 to n-1  
2.A[hole-1]>value
- C. 1.1 to n  
2.A[hole-1]<value
- D. 1.1 to n-1  
2.A[hole-1]=value

**Question 4**

Not answered

Marked out of 1

Flag question

[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[101] [SO-1] [60]**

If the list of country codes is almost sorted or sorted, \_\_\_\_\_ sorting technique provides the best performance result while implementation?

(1 Mark-[U/C,2])

Select one:

- A. Quick sort
- B. Merge sort
- C. Insertion sort
- D. Shell sort



Select one:

- A. Quick sort
- B. Merge sort
- C. Insertion sort
- D. Shell sort

**Question 5**

Complete

Mark 0 out of 1

Flag question

[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[104] [SO-3] [6 0]**

- Shell sort is not an unstable sorting algorithm because this algorithm does not examine the elements lying in between the intervals. State True or False.

**(1 Mark – [An/C,2])**

•

Select one:

- True
- False

False**Question 6**

Complete

Mark 2 out of 2

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[105] [SO-3] [120]

- Suppose the country codes listed below are sorted using Shell sort and if Shell's original sequence are used as intervals, the elements lying at the interval \_\_\_\_\_ are compared and swapped if they are not in order during the first iteration.
- |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 9 | 8 | 3 | 7 | 5 | 6 | 4 | 1 |
|---|---|---|---|---|---|---|---|

(2 Marks-[Ap/P,2])

Select one:

- A.  $N/4$
- B.  $N^2$
- C.  $N-1$
- D.  $N/2$

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PREVIOUS ACTIVITY

NEXT ACTIVITY



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[120]

BIT wants to design a system for storing the records of all the students using the application number of the students. The queries like: inserting an application number of a student during new admission and retrieving corresponding information, searching a student using application number and fetching the information and deleting an application number if a student gets their degree; should be processed efficiently all the time by the system. So, BIT think of using any efficient data structure to design the student's database system.

Answer the following questions using the above scenario.

Question 1

Complete

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00

[105] [SO-3] [60]

Let hash(x) be the slot index computed using hash function. If slot (hash (x) % S) is full, then collision occurs.  $[(\text{hash}(x) + i^*i) \% S]$  formula is used in \_\_\_\_\_ technique to avoid clash.

•

## Questions



Show one page at a time

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and deleting an application number. If a student gets their degree, should be processed efficiently all the time by the system. So, try think of using any efficient data structure to design the student's database system.

Answer the following questions using the above scenario.

**Question 1**

Complete

Mark 0 out of 1

Flag question

**Click here to view Scenario****Total Time Remaining: 0:00:00****[105] [SO-3] [60]**

Let hash(x) be the slot index computed using hash function. If slot (hash (x) % S) is full, then collision occurs.  $[(\text{hash}(x) + i^*i)\%S]$  formula is used in \_\_\_\_\_ technique to avoid clash.

•

(1 Mark-[U/C,2])

Select one:

- A. Quadratic probing
- B. Linear probing
- C. Log probing
- D. Double Hashing

**Question 2**

Complete

Mark 1 out of 1

**Click here to view Scenario****Total Time Remaining: 0:00:00**

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Select one:

- A. Quadratic probing
- B. Linear probing
- C. Log probing
- D. Double Hashing

**Question 2**

Complete

Mark 1 out of 1

Flag question

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[101] [SO-1] [60]**

For the above scenario, suggest a suitable data structure to design the student's database and enabling faster access with respect to student's application number.

(1 Mark-[U/C,2])

Select one:

- A. Linked List
- B. Stack
- C. Hashing
- D. Arrays

**Question 3**

Complete

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- B. Stack
- C. Hashing
- D. Arrays

Question 3

Complete

Mark 0 out of 2

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Total Time Remaining: 0:00:00

[107] [SO-2] [120]

- If a new student joins and the application number of the new student is "20". What is the hash value for this new application number? Whether this new application number could be inserted into the hash table? Whether collision or clash occurs during insertion into the hash table?

(2 Marks-[An/C,2])

Select one:

- A. 3, Yes, Yes
- B. 3, No, Yes
- C. 3, Yes, No
- D. 4, No, Yes

Question 4

Complete

Mark 0 out of 2

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Question 4

Complete

Mark 0 out of 2

Flag question

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Total Time Remaining: 0:00:00

[106] [SO-2] [120]

- Linear probing is a technique used to resolve the problem of collision in hash table. Below is the formula for computing Linear Probing.

$$P = (1 + P) \% (\text{MOD}) \text{Table\_size}$$

- Where  $P$ = Hash ( $P$ ) and  $\text{Table\_size}= 14$
- Hash function is calculated using the below formula
- Hash index = Application number / Total number of application numbers considered
- Using the above information, identify the suitable index position to place the new application number '20' in the below hash table 1.
- 

(2 Marks-[An/C,2])

Select one:

- A. 5
- B. 4
- C. 6
- D. 3



Question 5

Complete

Mark 0 out of 2

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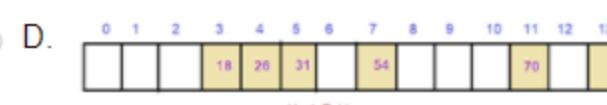
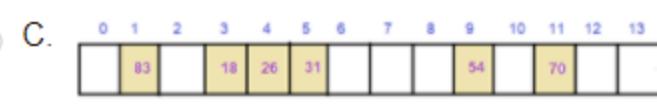
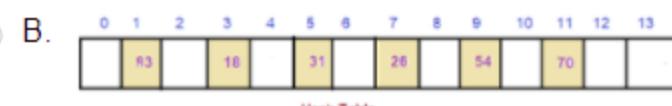
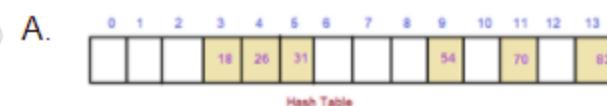
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[103] [SO-2] 240

- A hash function is used to map the item and the index position where item belongs in the hash table. Suppose for the below application numbers of the students (last two digits of the application number is considered), the hash function is calculated by dividing the application number with the total number of application numbers considered and the resultant value is the hash value. Depending upon the hash value, the application number is arranged in the hash table. Determine the resultant hash table obtained from the below options.
- Table 1: Students Application Number
  - 26 • 70 • 18 • 31 • 54 • 83

(2 Marks-[An/C,2])

Select one:



Question 6

Complete

Mark 0 out of 1

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Total Time Remaining: 0:00:00

[104] [SO-3] [6 0]

When an item is deleted from the hash table, the index position is marked as delete for enabling insertion for new element. While searching a particular item from a hash table, if index marked as deleted is encountered searching process breaks and return. State true or False.

(1 Mark – [An/C,2])

•

Select one:

- True
- False

Question 7

Complete

Mark 1 out of 1

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True  
 False

Question 7

Complete

Mark 1 out of 1

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Total Time Remaining: 0:00:00

[102][SO-2][ 60]

If Hashing technique is used, the big application number could be mapped to a small number and that number could be used as \_\_\_\_\_ for the hash table.

(1 Mark-[U/C,2])

Select one:

- A. Hash function
- B. Secondary key
- C. Array
- D. • Index

Finish review



PREVIOUS ACTIVITY

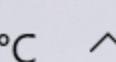
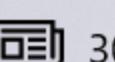
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NEXT ACTIVITY

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Questions

|     |         |     |         |         |         |         |         |
|-----|---------|-----|---------|---------|---------|---------|---------|
| 1   | 2       | 3   | 4       | 5       | 6       | 7       | 8       |
| Red | Green ✓ | Red | Green ✓ |

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Figure 1 Figure 2



Figure 3



From the given figures, you may differentiate procedure oriented programming and object oriented programming with its characteristics.



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**Question 1**

Incorrect

Mark 0 out of 1

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Figure 1 represent which type of programming paradigm?

(1 Mark-[U/C,2])

- A. Object oriented programming
- B. Functional programming
- C. Procedure oriented programming
- D. Logical programming

The correct answer is: Procedure oriented programming

**Question 2**

Correct

Mark 1 out of 1

Flag question

From the figure 1, which of the following is a drawback with procedure oriented programming?

(1 Mark-[U/C,2])

- A. Related functions and data
- B. Unrestricted access to global data
- C. Access to local data
- D. Denied access to global data

The correct answer is: Unrestricted access to global data

**Question 3**

Incorrect

Mark 0 out of 1

Flag question

Figure 3 represents which of the following OOP characteristics?

(1 Mark-[U/C],2)

- A. Encapsulation
- B. Data hiding
- C. Polymorphism



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The correct answer is: Unrestricted access to global data

Question 3

Incorrect

Mark 0 out of 1

Flag question

Figure 3 represents which of the following OOP characteristics?

(1 Mark-[U/C],2)

- A. Encapsulation
- B. Data hiding
- C. Polymorphism
- D. Inheritance



The correct answer is: Polymorphism

Question 4

Correct

Mark 1 out of 1

Flag question

```
class student
{
private:
int rollno;
string name;
public:
void getdata(int a, string b)
{
rollno=a; name=b;
}
void putdata(void)
{
cout<<"Roll Number."<<rollno;
cout<<"Name."<<name;
}
};
```

Identify all the data members in the code given above.



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The correct answer is: Polymorphism

**Question 4**

Correct

Mark 1 out of 1

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```
class student
{
private:
int rollno;
string name;
public:
void getdata(int a, string b)
{
rollno=a; name=b;
}
void putdata(void)
{
cout<<"Roll Number."<<rollno;
cout<<"Name."<<name;
}
};
```

**Identify all the data members in the code given above.**

(1 Mark-[An/C,1])

- A. a,b
- B. name,rollno
- C. rollno
- D. getdata, putdata



The correct answer is: name,rollno

**Question 5**

class Student



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The correct answer is: name,rollno

**Question 5**  
Correct  
Mark 1 out of 1  
[Flag question](#)

```
class Student
{
    string name;
    int marks;
public:
    void getName()
    {
        cin >> name;
    }
    void getMarks()
    {
        cin >> marks;
    }
    void displayInfo()
    {
        cout << "Name : " << name << endl;
        cout << "Marks : " << marks << endl;
    }
};
```

Identify all the member functions used in the above code.

(1 Mark-[U/C,1])

A. name, marks  
 B. name, marks, getName  
 C. getName, getMarks  
 D. getName, getMarks, displayInfo

The correct answer is: getName, getMarks, displayInfo

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**Question 6**

Correct

Mark 2 out of 2

Flag question

```
class student{  
private:  
int rollno;  
string name;  
public:  
void getdata(int a, string b)  
{  
rollno=a; name=b;  
}  
void putdata(void)  
{  
cout<<"Roll Number:"<<rollno;  
cout<<"Name:"<<name;  
};  
int main()  
{ _____;  
_____;  
_____;  
return 0;  
}
```

**Fill the empty lines to get the output: 32, Radhai.**

(2 Marks-[An/C,2])

- A. student s1; s1.getdata(); s1.putdata(32, "Radhai");
- B. student s1; s1.getdata(32, "Radhai"); s1.putdata();
- C. stud s1; s1.getdata();
- D. student s; s.getdata();s.putdata();

The correct answer is: student s1; s1.getdata(32, "Radhai"); s1.putdata();



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The correct answer is: student s1; s1.getdata(32,"Radhai"); s1.putdata();

Question 7  
Correct  
Mark 2 out of 2  
[Flag question](#)

```
#include <iostream.h>
using namespace std;
class sports
{
public:
    string name;
    void printname()
    {
        cout << " Favourite sports: " << name;
    }
};
int main()
{
    sports obj1;
    obj1.name = "Hockey";
    obj1.printname();
    return 0;
}
```

What will be the output of the above code?

(2 Marks-[An/C,2])

- A. Favourite sports
- B. Error
- C. Favourite sports hockey
- D. Favourite sports: Hockey

The correct answer is: Favourite sports: Hockey

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```
int main() {
    sports obj1;
    obj1.name = "Hockey";
    obj1.printname();
    return 0;
}
```

What will be the output of the above code?

(2 Marks-[An/C,2])

- A. Favourite sports
- B. Error
- C. Favourite sports hockey
- D. Favourite sports: Hockey

The correct answer is: Favourite sports: Hockey

Question 8  
Correct  
Mark 1 out of 1  
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In figure 2, bake is the behaviour of the pizza object.

(1 Mark-[U/C,2])

Select one:

- True ✓
- False

The correct answer is 'True'.

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| Specifiers | Within Same Class | In Derived Class | Outside the Class |
|------------|-------------------|------------------|-------------------|
| Private    | Yes               | No               | No                |
| Protected  | Yes               | Yes              | No                |
| Public     | Yes               | Yes              | Yes               |

## Questions

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ✓ | ✓ | ✓ | ✓ | ✗ | ✓ | ✓ | ✓ |

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Finish review

Figure 1: Specifiers

From the given figure you can identify that, the specifiers set some restrictions on the data members and member functions based on their declarations inside the class or outside the class. Answer the below questions using the given figure.

Question 1

Correct

Mark 1 out of 1

 Flag question

\_\_\_\_\_ is used to implement an important feature of object oriented programming known as data hiding. (1 Mark-[U/C,1])

- A. Access Specifiers
- B. Inheritance
- C. Constructors
- D. Polymorphism



The correct answer is: Access Specifiers

Question 2

Correct

Mark 2 out of 2

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```
#include <iostream>
using namespace std;
class Circle
{
```

No more attempts are allowed



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Question 2

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
public:
    double radius;
    double compute_Area
    {
        return 3.14*radius*radius;
    };
    int main
    {
        Circle C;
        C.radius=5.5;
        cout<<"Radius is:"<<C.radius<<endl;
        cout<<"Area is:"<<C. compute_Area ;
        return 0;
    }
}
```

Predict the output of the above program. (2 Mark-[Ap/P,2])

- A. Compile time error
- B. Radius is: 94.985  
Area is: 5.5
- C. Area is: 94.985  
Radius is: 5.5
- D. Radius is: 5.5  
Area is: 94.985



The correct answer is: Radius is: 5.5  
Area is: 94.985

No more attempts are allowed



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 D. Radius is: 94.985

Area is: 5.5

 C. Area is: 94.985

Radius is: 5.5

 D. Radius is: 5.5

Area is: 94.985



The correct answer is: Radius is: 5.5

Area is: 94.985

**Question 3**

Correct

Mark 1 out of 1

Flag question

The class member declared as private can be accessed by the functions outside the class. (1 Mark-[U/C,1])

Select one:

 True False

The correct answer is 'False'.

**Question 4**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
private:
    double radius;
public:
    double compute_Area
    {
        return 3.14*radius*radius;
    };
    int main
}
```

No more attempts are allowed



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**Question 4**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream>
using namespace std;
class Circle
{
private:
    double radius;
public:
    double compute_Area
    {
        return 3.14*radius*radius;
    }
    int main
    {
        Circle C;
        C.radius=5.5;
        cout<<"Radius is:"<<C.radius;
        cout<<"Area is:"<<C.compute_Area ;
        return 0;
    }
}
```

Predict the output of the above program. (2 Mark-[Ap/P],2)

- A. Radius is: 5.5  
Area is: 94.985
- B. Area is: 94.985  
Radius is: 5.5
- C. Radius is: 94.985  
Area is: 5.5
- D. Compile time error



The correct answer is: Compile time error

No more attempts are allowed



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18CS306-Programming Using CPP-24.09.2021-FA2: Attempt review - Google Chrome

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Area is: 5.5

D. Compile time error

The correct answer is: Compile time error

**Question 5**  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

```
#include <iostream>
using namespace std;
class Demo
{ public:
    static int ABC;
};

_____ // Fill the code here

int Demo :: ABC =10;
int main()
{ cout<<"\nValue of ABC: "<<Demo::ABC;
return 0;
}

Fill the code in the above program to achieve the below given output.

Value of ABC: 10 (1 Mark-[Ap/P2])
```

A. int Demo(ABC =10);  
B. ABC =10;  
C. int :: ABC =10;  
D. int Demo :: ABC =10;

The correct answer is: int Demo :: ABC =10;

**Question 6**  
Correct

Identify the correct method to define a static data member. (1 Mark-[U/C,1])

No more attempts are allowed

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The correct answer is: int Demo :: ABC =10;

Question 6

Correct

Mark 1 out of 1

Flag question

Identify the correct method to define a static data member. (1 Mark-[U/C,1])

- A. data\_type class\_name , member\_name =value;
- B. data\_type :: member\_name =value;
- C. member\_name =value;
- D. data\_type class\_name :: member\_name =value;



The correct answer is: data\_type class\_name :: member\_name =value;

Question 7

Correct

Mark 1 out of 1

Flag question

Which among the following can be used together in a single class? i) Only private

ii) Private and Protected together

iii) Private and Public together (1 Marks-[An/C,2])

- A. (ii) and (iii) alone can be used in a class
- B. All the three can be used in a class
- C. (i) and (ii) alone can be used in a class
- D. (i) alone can be used in a class



The correct answer is: All the three can be used in a class

Question 8

Correct

Mark 1 out of 1

Flag question

Identify the access specifier which is used when no access specifier is used with a member of class in C++. (1 Marks-[An/C,1])

- A. Protected
- B. Both public and Private
- C. Public
- D. Private

No more attempts are allowed



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The correct answer is: data\_type class\_name :: member\_name =value;

**Question 7**  
Correct  
Mark 1 out of 1  
[Flag question](#)

**Which among the following can be used together in a single class?** i) Only private  
ii) Private and Protected together  
iii) Private and Public together (1 Marks-[An/C,2])

A. (ii) and (iii) alone can be used in a class  
 B. All the three can be used in a class  
 C. (i) and (ii) alone can be used in a class  
 D. (i) alone can be used in a class

The correct answer is: All the three can be used in a class

**Question 8**  
Correct  
Mark 1 out of 1  
[Flag question](#)

Identify the access specifier which is used when no access specifier is used with a member of class in C++. (1 Marks-[An/C,1])

A. Protected  
 B. Both public and Private  
 C. Public  
 D. Private

The correct answer is: Private

[Finish review](#)

18CS306-Programming Using CPP-01.10.2021-FA3: Attempt review - Google Chrome

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Information

Mr John used a special 'MEMBER FUNCTION' having the same name as that of its class. It is used to initialize some valid values to the data members of an object. It is executed automatically whenever an object of a class is created. The only restriction that applies to the special member function is that it must not have a return type or void. It is because the special member function is automatically called by the compiler and it is normally used to initialize values.

Answer the below questions using the given scenario.

Question 1  Mark 1 out of 1

Identify the function which gets called automatically when an object is being created. (1 Mark-[U/C,1])

A. Main  
 B. Constructor  
 C. Virtual Function  
 D. Destructors

The correct answer is: Constructor

Question 2  Mark 1 out of 1

Destructor is a member function which destructs or deletes an object. Pick the right destructor for the TollBooth class. (1 Mark-[An/C,1])

A. TollBooth()  
 B. ~TollBooth()  
 C. TollBooth()  
 D. \_TollBooth()

The correct answer is: ~TollBooth()

Question 3  Mark 1 out of 1

A copy constructor is a member function which initializes an object using another object of the same class. The main program for tollbooth can be written as follows

Class tollbooth

No more attempts are allowed

Questions

1 2 3 4 5 6 7 8

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**Question 3**

Correct

Mark 1 out of 1

Flag question

The correct answer is: ~TollBooth()

A copy constructor is a member function which initializes an object using another object of the same class. The main program for tollbooth can be written as follows

```
Class tollbooth
{ tollbooth(const tollbooth b2) {
    x=b2.x
}
}

int main()
{
char x;
tollBooth d;
_____ // Fill the code here
}
```

Find the best option from below, for the missing line which can be used to declare the copy constructor in main. (1 Mark-[Ap/P,2])

- A. tollbooth b1(B)
- B. tollbooth b1 \*B
- C. tollbooth B
- D. Tollbooth b1(B)



The correct answer is:  
tollbooth b1(B)

**Question 4**

Correct

The C++ program allows to use more than one destructor in a class. (1 Mark-[U/C,1])

Select one:

No more attempts are allowed



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**Question 4**  
Correct  
Mark 1 out of 1  
[Flag question](#)

The C++ program allows to use more than one destructor in a class. (1 Mark-[U/C,1])

Select one:

True

False ✓

The correct answer is 'False'.

**Question 5**  
Correct  
Mark 2 out of 2  
[Flag question](#)

State whether the following statements about the constructor are True or False.

i) Constructors should be declared in the private section.  
ii) Constructors are invoked automatically when the objects are created.  
(2 Mark-[Ap/P],2)

A. (i) is true  
(ii) is false

B. (i) is false  
(ii) is false

C. (i) is true  
(ii) is true

D. (i) is false  
(ii) is true ✓

The correct answer is: (i) is false  
(ii) is true

**Question 6**  
Correct  
Mark 1 out of 1

Object can also be passed to a function as an argument via \_\_\_\_\_.  
(1 Mark-[U/C,1])

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## Question 6

Correct

Mark 1 out of 1

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Object can also be passed to a function as an argument via \_\_\_\_\_.

(1 Mark-[U/C,1])

- A. pass by array
- B. pass by parameter & pass by array
- C. pass by pointer
- D. pass by value & pass by reference



The correct answer is: pass by value &amp; pass by reference

## Question 7

Correct

Mark 2 out of 2

[Flag question](#)

```
#include <iostream>
using namespace std;
class construct
{
public:
int a, b;
_____ // Fill the code here
_____ // Fill the code here
_____ // Fill the code here
};
int main()
{
construct c;
cout << "a: " << c.a << endl
<< "b: " << c.b;
return 1;
}
```

Output:

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Mark 2 out of 2

Flag question

```
class construct
{
public:
int a, b;
_____ // Fill the code here
_____ // Fill the code here
_____ // Fill the code here
};

int main()
{
construct c;
cout << "a: " << c.a << endl
<< "b: " << c.b;
return 1;
}
```

Output:

a:10  
b:20

Fill the missing lines in above code to achieve the given output. (2 Mark-[Ap/P,2])

- A. display
- { a = 10;  
b = 20; }
- B. show
- { a = 10;  
b = 20; }
- C. ~construct { a=10; b=20; }
- D. construct  
{ a = 10;  
b = 20; }

✓

No more attempts are allowed



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- A. display
- B. show
- C. ~construct
- D. construct

The correct answer is: construct  
{ a = 10;  
b = 20; }

Question 8  
Correct  
Mark 1 out of 1  
 Flag question

What happens to the code if Mr. John forgets to define a constructor inside a class? (1 Marks-[An/C,2])

- A. Segmentation fault
- B. Objects are not created properly
- C. Compiler provides a default constructor to avoid faults/errors
- D. Error occurs

The correct answer is: Compiler provides a default constructor to avoid faults/errors

[Finish review](#)

Information

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Figure 1 fruits array Figure 2 cake array

Figure 1 and 2 depicts the concept of arrays in object oriented programming. Answer the following questions by considering the figures given here.

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Question 1

Incorrect

Mark 0 out of 1

[Flag question](#)

As shown in figure 1 & 2, Haemoglobin level of six people is also stored in the form of arrays. Complete the code to print six the haemoglobin levels entered by the user.

(1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
int main()
{
    int hb[6];
    for(_____) // #1
    {
        cout << "Enter an HB level: ";
        cin >> hb[j];
    }
}
```

18CS306-Programming Using CPP-18.10.2021-FA4: Attempt review - Google Chrome

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Question 1  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

As shown in figure 1 & 2, Haemoglobin level of six people is also stored in the form of arrays. Complete the code to print six the haemoglobin levels entered by the user. (1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
int main()
{
    int hb[6];
    for(_____) // #1
    {
        cout << "Enter an HB level: ";
        cin >> hb[j];
    }
    for(_____) // #2
    cout << "You entered " << hb[j] << endl;
    return 0;
}
```

A. #1 int j=6;j>0;j++ & #2 int i=0;i<5;i++  
 B. #1& #2 int i=0;i<6;i++  
 C. #1 int i=0;i<=5;i++ & #2 int j=0;j<6;j++  
 D. #1& #2 int i=0;i<=6;i--;

The correct answer is: #1& #2 int i=0;i<6;i++

Question 2  
Incorrect

The index number of the last element of an array with 9 elements is (1 Mark-[An/C 2])

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- A. #1 int j=6;j>0;j++ & #2 int i=0;i<5;i++
- B. #1& #2 int i=0;i<6;j++
- C. #1 int i=0;j<=5;j++ & #2 int j=0;j<6;j++
- D. #1& #2 int i=0;i<=6;j--;

X

The correct answer is: #1& #2 int i=0;i<6;j++

**Question 2**

Incorrect

Mark 0 out of 1

[Flag question](#)

The index number of the last element of an array with 9 elements is

(1 Mark-[An/C,2])

- A. 9
- B. 0
- C. 8
- D. 7

X

The correct answer is: 8

**Question 3**

Correct

Mark 1 out of 1

[Flag question](#)

The seventh element stored in the array named fruits can be accessed by

(1 Mark-[An/C,2])

- A. fruits[7];
- B. Fruits[];
- C. fruits[6];
- D. fruits(7);

✓

The correct answer is: fruits[6];



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question

B. Fruits[];  
 C. fruits[6];  
 D. fruits(7); ✓

The correct answer is: fruits[6];

Question 4  
Correct  
Mark 2 out of 2  
Flag question

What will be the output of the following C++ code? (2 Marks-[Ap/C,2])

```
#include<iostream>
using namespace std;
int array1[] = {1200, 200, 2300, 1230, 1543};
int array2[] = {12, 14, 16, 18, 20};
int temp, result = 0;
int main(){
    for (temp = 0; temp < 5; temp++){
        result += array1[temp];
    }
    for (temp = 0; temp < 4; temp++){
        result += array2[temp];
    }
    cout << result;
    return 0;
}
```

A. 6533 ✓  
 B. 6531  
 C. 6553  
 D. 6522

The correct answer is: 6533

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The correct answer is: 6533

**Question 5**  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

Complete the line1 in the program given below to print the average. (1 Mark-[Ap/C,2])

```
#include <iostream>
using namespace std;
// function declaration:
_____ //Line 1
int main ()
{
int balance[5] = {1000, 2, 3, 17, 50};
double avg;
avg = getAverage( balance, 5 );
cout << "Average value is: " << avg << endl;
return 0;
}
```

A. **double getAverage(int arr[], int size);**  
 B. **int getAverage(float arr[], int size);**  
 C. **int getAverage(float arr[], float size);**  
 D. **double getaverage(int arr[],float size);**

The correct answer is:  
**double getAverage(int arr[], int size);**

**Question 6**  
Correct

Create object for the Animals class with the concept of array of objects. (1 Mark-[U/C,2])

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D. double getaverage(int arr[],float size); X

The correct answer is:  
double getAverage(int arr[], int size);

Question 6

Correct

Mark 1 out of 1

Flag question

Create object for the Animals class with the concept of array of objects.

(1 Mark-[U/C,2])

```
class Animals
{
    char name[50];
    char species[10];
    void move();
    void eat();
};
```

- A. Animals a[10]; ✓
- B. Animals a1;
- C. Animal a[20];
- D. Animals a[];

The correct answer is: Animals a[10];

Question 7

Correct

Mark 1 out of 1

Flag question

Find the output of the given code.

(1 Mark-[Ap/P,2])

```
#include<iostream.h>
using namespace std;
int a[ ]={1,2,3,4,5};
int i, result=0;
int main()
```

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The correct answer is: Animals a[10];

Question 7

Correct

Mark 1 out of 1

Flag question

**Find the output of the given code.**

(1 Mark-[Ap/P,2])

```
#include<iostream.h>
using namespace std;
int a[ ]={1,2,3,4,5};
int i, result=0;
int main()
{
    for (i=0;i<5;i++)
    {
        result+=a[i];
    }
    cout<<result;
    return 0;
}
```

- A. 10
- B. 6
- C. 15
- D. 14



The correct answer is: 15

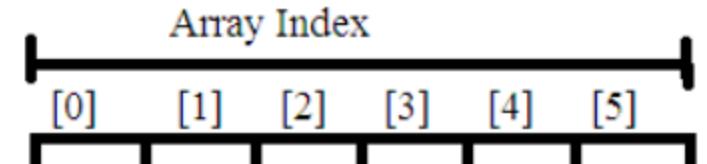
Question 8

Correct

Mark 1 out of 1

Flag question

**The size of the below given array is**



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- A. 10
- B. 6
- C. 15
- D. 14



The correct answer is: 15

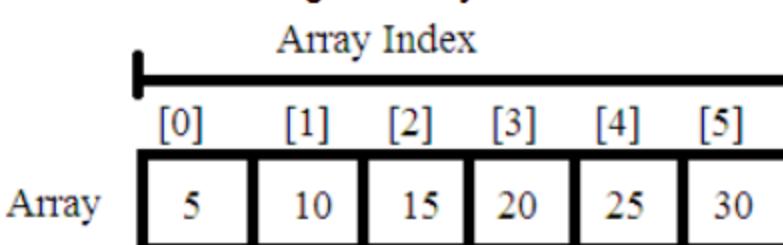
Question 8

Correct

Mark 1 out of 1

Flag question

**The size of the below given array is**



(1 Mark-[U/C,1])

- A. 6
- B. 5
- C. 7
- D. 4



The correct answer is: 6

Question 9

Correct

Mark 1 out of 1

Flag question

State true or false.

You can generate a pointer to the first element of an array by simply specifying the array name, without any index.

(1 Mark-[U/C,1])

Select one:

- True ✓



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Correct  
Mark 1 out of 1  
 Flag question

Array Index

Array

(1 Mark-[U/C,1])

A. 6 ✓  
B. 5  
C. 7  
D. 4

The correct answer is: 6

Question 9  
Correct  
Mark 1 out of 1  
 Flag question

State true or false.  
You can generate a pointer to the first element of an array by simply specifying the array name, without any index.

(1 Mark-[U/C,1])

Select one:

True ✓  
False

The correct answer is 'True'.

Finish review

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Information  
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Figure 1

Figure 1 shows one of the string handling functions in object oriented programming. Answer the following questions by considering the above figure.

Questions

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |

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Finish review

Question 1  
Correct  
Mark 1 out of 1  
Flag question

Which of the following is used in Figure 1 to store character? (1 Mark-[U/C,1])

- A. int array
- B. double array
- C. string array
- D. char array

The correct answer is:  
**char array**

Question 2  
Correct  
Mark 1 out of 1  
Flag question

string str4(str1, 6, 6);  
The above statement comes under \_\_\_\_\_ type of initialization. (1 Mark-[An/C,2])

- A. Initialization by another string
- B. Initialization by part of another string
- C. Initialization by raw string

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18CS306-Programming Using CPP-22.10.2021-FA5: Attempt review - Google Chrome

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Correct  
Mark 1 out of 1  
Flag question

(1 Mark-[U/C,1])

A. int array  
B. double array  
C. string array  
D. char array

The correct answer is:  
**char array**

Question 2  
Correct  
Mark 1 out of 1  
Flag question

string str4(str1, 6, 6);  
The above statement comes under \_\_\_\_\_ type of initialization.

(1 Mark-[An/C,2])

A. Initialization by another string  
B. Initialization by part of another string  
C. Initialization by raw string  
D. Initialization by character with number of occurrence

The correct answer is: Initialization by part of another string

Question 3  
Correct  
Mark 1 out of 1  
Flag question

What will be the output of the below line of code if str6="Welcome".

(1 Mark-[Ap/C,2])

char ch = str6.at(2);

A. c  
B. I  
C. el  
D. e

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The correct answer is: Initialization by part of another string

**Question 3**

Correct

Mark 1 out of 1

Flag question

What will be the output of the below line of code if str6="Welcome".

(1 Mark-[Ap/C,2])

```
char ch = str6.at(2);
```

- A. c
- B. I
- C. el
- D. e



The correct answer is: I

**Question 4**

Correct

Mark 1 out of 1

Flag question

In which of the following ways, function overloading can be achieved?

(1 Mark-[U/C,2])

- Same function name with different number of arguments
- Different function name with same number of arguments
- Same function name with different type of arguments
- Different function name with same type of arguments

- A. I,III
- B. I,II,III
- C. I only
- D. I,III,IV



The correct answer is: I,III

**Question 5**

Predict the output of following C++ program?



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## Question 5

Correct

Mark 2 out of 2

Flag question

Predict the output of following C++ program?

(2 Marks-[Ap/C,3])

```
include<iostream>
using namespace std;
class Test{
protected:
int x;
public:
Test (int i):x(i) { }
void fun() const { cout << "fun() const " << endl; }
void fun() { cout << "fun() " << endl; } };
int main()
{ Test t1 (10);
const Test t2 (20);
t1.fun();
t2.fun();
return 0; }
```

- A. Compiler error
- B. fun()  
fun() const
- C. fun() const  
fun() const
- D. fun() fun()



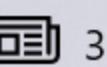
The correct answer is:  
**fun()**  
**fun() const**

## Question 6

#include &lt;iostream.h&gt;



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**Question 6**

Correct

Mark 2 out of 2

Flag question

```
#include <iostream.h>
using namespace std;
int main() {
    string str1("first string");
    string str2(str1);
    string str3(5, '#');
    string str4(str1, 6, 6);
    cout << str1 << endl;
    cout << str2 << endl;
    cout << str3 << endl;
    cout << str4 << endl;
    return 0; }
```

Predict the output for the above code.

(2 Marks-[Ap/P,2])

- A. first string  
first string  
#####  
string
- B. First string  
#####  
First string first  
first
- C. First  
First string  
\$\$\$\$\$
- D. First string first  
#####  
string



The correct answer is: first string  
first string  
#####  
string

Question 7

Correct

Mark 1 out of 1

[Flag question](#)**Which function is used to obtain the character “D” stored at a specified location in Figure 1?**

(1 Marks-[Ap/P,2])

- A. location()
- B. at()
- C. find()
- D. search()



The correct answer is: at()

Question 8

Correct

Mark 1 out of 1

[Flag question](#)**Which of the following string handling operation is done in Figure 1?**

(1 Mark-[U/C,1])

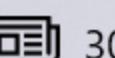
- A. strcpy()
- B. strrev()
- C. strchr()
- D. strcat()



The correct answer is: strrev()

[Finish review](#)

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Information

Flag question

[60]

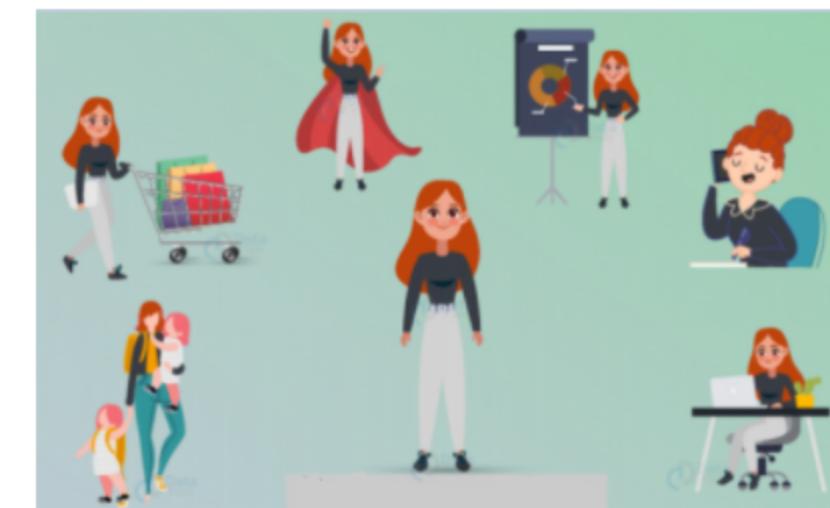


Figure 1

Figure 1 depicts the concept of polymorphism in object oriented programming. Answer the following questions by considering the above concept.

Total Time Remaining: 0:00:00

Question 1

Correct

Mark 2 out of 2

Flag question

[SO-1] [120]

Predict the output of the code given here.

(2 Marks-[An/C,2])

class A {

**Question 1**

Correct

Mark 2 out of 2

Flag question

**[SO-1] [120]**

Predict the output of the code given here.

(2 Marks-[An/C,2])

```
class A {  
    int i;  
    public:  
        A(int ii = 0) : i(ii) {}  
        void show() { cout << i << endl; } };  
class B {  
    int x;  
    public:  
        B(int xx) : x(xx) {}  
        operator A() const { return A(x); } ;  
    void g(A a) {  
        a.show(); }  
    int main()  
    { B b(10); g(b); g(20); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. 20 10
- B. 20 20
- C. 10 20
- D. 10 10



**Question 2**

Correct

Mark 1 out of 1

Flag question

**[SO-1] [60]**

Complete the line1 to get output as 10.

(1 Mark-[Ap/P,2])

```
class Test {  
private:  
int num;  
public:  
Test(): num(8){}  
void operator ++() {  
----- //Line1  
}  
void Print() {  
cout<<"The Count is: "<<num;  
}  
int main() {  
Test tt;  
++tt; tt.Print(); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. num=num+1;
- B. Num+2
- C. num++;

```
++tt; tt.Print(); return 0; }
```

Total Time Remaining: 0:00:00

- A. num=num+1;
- B. Num+2
- C. num++;
- D. num = num+2;



The correct answer is: num = num+2;

**Question 3**

Correct

Mark 1 out of 1

Flag question

**[SO-2] [60]**

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

Total Time Remaining: 0:00:00

- A. A operator[+](argument\_list){}
- B. int +(argument\_list){}

D. num = num+2;

The correct answer is: num = num+2;

**Question 3**

Correct

Mark 1 out of 1

Flag question

[SO-2] [60]

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

**Total Time Remaining: 0:00:00**

- A. A operator[+](argument\_list){}
- B. int +(argument\_list){}
- C. A operator+(argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

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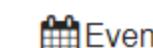
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Standard view

- C. A operator+(argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

- A. ==
- B. =
- C. -=
- D. +=



The correct answer is: =

**Question 5**

Correct

Mark 2 out of 2

Flag question

[SO-3] [120]

Which operator should be overloaded in the following code to make the program error free?

(2 Marks-[An/C,2])

class Box{



Type here to search



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Mark 2 out of 2

Flag question

(2 Marks-[An/C,2])

```
class Box{  
    int capacity;  
    public:  
        Box(){  
        }  
        Box(double capacity){  
            this->capacity = capacity;  
        }  
        int main(int argc, char const *argv[]){  
            Box b1(10);  
            Box b2 = Box(14);  
            if(b1 == b2){ cout<<"Equal"; }  
            else{ cout<<"Not Equal"; }  
            return 0; }  
}
```

Total Time Remaining: 0:00:00

- A. =
- B. +
- C. ==
- D. ()



The correct answer is:

==

Question 6

Correct

Mark 1 out of 1

[Flag question](#)

[SO-3] [120]

Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count() : value(5) {}  
void operator ++ () {  
++value;  
}  
void display() {  
cout << value << endl; } };  
int main()  
{  
Count count1;  
++count1; count1.display(); return 0; }
```

Total Time Remaining: 0:00:00

- A. 7
- B. error
- C. 6
- D. 5



Question 7

Correct

Mark 1 out of 1

Flag question

## [SO-3] [120]

Predict the output.

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
        cout<<"a: "<<a<<endl;  
    }  
    void operator.() {  
        cout<<"Objects are added\n"; } };  
  
int main(int argc, char const *argv[])  
{  
    A a1, a2;  
    return 0;  
}
```

Total Time Remaining: 0:00:00

- A. Error
- B. a
- C. a:Objects are added
- D. Objects are added



The correct answer is: Error

**Question 8**

Not answered

Marked out of 1

Flag question

**[SO-3] [60]**

State true or false.

Associativity and precedence of operators change in operator overloading.

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

Select one:

 True False

The correct answer is 'False'.

[Finish review](#)

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[60]



Figure 1

Figure 1 depicts the concept of polymorphism in object oriented programming. Answer the following questions by considering the above concept.

Total Time Remaining: 0:00:00

Questions

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| ✓ |   |   |   |   | ✓ |   | ✓ |

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Finish review

Question 1  
Correct  
Mark 2 out of 2  
Flag question

[SO-1] [120]  
Predict the output of the code given here. (2 Marks-[An/C,2])

```
class A {  
    int i;  
public:  
    A(int ii = 0) : i(ii) {}  
    void show() { cout << i << endl; } };  
class B {
```

**Question 1**

Correct

Mark 2 out of 2

Flag question

**[SO-1] [120]**

Predict the output of the code given here.

(2 Marks-[An/C,2])

```
class A {  
    int i;  
public:  
    A(int ii = 0) : i(ii) {}  
    void show() { cout << i << endl; } };  
class B {  
    int x;  
public:  
    B(int xx) : x(xx) {}  
    operator A() const { return A(x); } };  
void g(A a) {  
    a.show();}  
int main()  
{ B b(10); g(b); g(20); return 0; }
```

**Total Time Remaining: 0:00:00**

- A. 10 10
- B. 20 20
- C. 10 20
- D. 20 10



Question 2

Incorrect

Mark 0 out of 2

Flag question

[SO-3] [120]

Which operator should be overloaded in the following code to make the program error free?

(2 Marks-[An/C,2])

```
class Box{  
    int capacity;  
public:  
    Box(){  
    }  
    Box(double capacity){  
        this->capacity = capacity;  
    }  
    int main(int argc, char const *argv[]){  
        Box b1(10);  
        Box b2 = Box(14);  
        if(b1 == b2){ cout<<"Equal"; }  
        else{ cout<<"Not Equal"; }  
        return 0; }  
}
```

Total Time Remaining: 0:00:00

- A. +
- B. ==
- C. ()
- D. =



Question 3

Correct

Mark 1 out of 1

Flag question

[SO-1] [60]

Complete the line1 to get output as 10.

(1 Mark-[Ap/P,2])

```
class Test {  
private:  
int num;  
public:  
Test(): num(8){}  
void operator ++() {  
----- //Line1  
}  
void Print()  
cout<<"The Count is: "<<num;  
};  
int main()  
Test tt;  
++tt; tt.Print(); return 0; }
```

Total Time Remaining: 0:00:00

- A. Num+2
- B. num = num+2;
- C. num=num+1;
- D. num++;



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D. num++;

The correct answer is: num = num+2;

**Question 4**  
[SO-3] [60]  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

State true or false.  
Associativity and precedence of operators change in operator overloading.

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

Select one:

True ×  
 False

The correct answer is 'False'.

**Question 5**  
[SO-3] [120]  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

Predict the output.

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
    }  
}
```

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Question 5  
Incorrect  
Mark 0 out of 1  
[Flag question](#)

**[SO-3] [120]**  
Predict the output.

(1 Mark-[An/C,2])

```
class A {  
    static int a;  
public:  
    void show() {  
        a++;  
        cout<<"a: "<<a<<endl; }  
    void operator.() {  
        cout<<"Objects are added\n"; } };  
  
int main(int argc, char const *argv[])  
{  
A a1, a2;  
return 0;  
}
```

Total Time Remaining: 0:00:00

A. a:Objects are added X

B. a

C. Error

D. Objects are added

The correct answer is: Error

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- A. a:Objects are added
- B. a
- C. Error
- D. Objects are added



The correct answer is: Error

Question 6

Correct

Mark 1 out of 1

Flag question

[SO-2] [60]

If the class name is A, then the operator + may be overloaded as

(1 Mark-[An/C,2])

Total Time Remaining: 0:00:00

- A. A operator+(argument\_list){}
- B. int +(argument\_list){}
- C. A operator[+](argument\_list){}
- D. int [+](argument\_list){}



The correct answer is: A operator+(argument\_list){}

Question 7

Incorrect

Mark 0 out of 1

[SO-2] [60]

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])



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D. int [+](argument\_list){}

The correct answer is: A operator+(argument\_list){}

**Question 7** [SO-2] [60]  
Incorrect  
Mark 0 out of 1  
Flag question

Which of the following operators are overloaded by default by the compiler in every user defined classes even if user has not written?

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

A. =  
B. -=  
C. ==  
D. +=

The correct answer is: =

**Question 8** [SO-3] [120]  
Correct  
Mark 1 out of 1  
Flag question

Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count(): value(5);
```

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The correct answer is: =

**Question 8**  
Correct  
Mark 1 out of 1  
 Flag question

[SO-3] [120]  
Predict the output.

(1 Mark-[An/C,2])

```
class Count {  
private:  
int value;  
public:  
Count() : value(5) {}  
void operator ++ () {  
++value;  
}  
void display() {  
cout << value << endl; } };  
int main() {  
Count count1;  
++count1; count1.display(); return 0; }
```

Total Time Remaining: 0:00:00

A. 6   
 B. error  
 C. 7  
 D. 5

The correct answer is: 6

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```
[150]
#include <iostream>

using namespace std;
// Base class Shape
class Shape {
public:
void setWidth(int w) {
width = w;
}
void setHeight(int h) {
height = h;
}
protected:
int width;
int height;
};
// Base class PaintCost
class PaintCost {
public:
int getCost(int area) {
return area * 70;
}
};
// Derived class
public:
int getArea() {
return (width * height);
}
int main(void) {
Rectangle Rect;
int area;
Rect.setWidth(5);
Rect.setHeight(7);
}
```

Finish review

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```
height = h;
}
protected:
int width;
int height;
};

// Base class PaintCost
class PaintCost {
public:
int getCost(int area) {
return area * 70;
}
};

// Derived class
public:
int getArea() {
return (width * height);
}
};

int main(void) {
Rectangle Rect;
int area;
Rect.setWidth(5);
Rect.setHeight(7);
area = Rect.getArea();
// Print the area of the object.
cout << "Total area: " << Rect .getArea() << endl;
// Print the total cost of painting
cout << "Total paint cost: $" << Rect .getCost(area) << endl;
return 0;
}
```

Question 1  
Incorrect

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```
// Print the total cost of painting  
cout << "Total paint cost: $" << Rect .getCost(area) << endl;  
return 0;  
}
```

## Question 1

Incorrect

Mark 0 out of 2

[Flag question](#)[\*\*Click here to view Scenario\*\*](#)

Total Time Remaining: 0:00:00

[102] [SO-1] [120]

Consider the code and find the answer

```
class ProtectedDerived: .....Base {  
    // x is protected  
    // y is protected  
    // z is not accessible from ProtectedDerived (2 Mark- [AN/C, 2])
```

Select one:

- A. Public
- B. Base Class
- C. Protected
- D. Private



The correct answer is:

Protected

## Question 2

[Click here to view Scenario](#)

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Protected

Question 2  
Correct  
Mark 2 out of 2  
 Flag question

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Total Time Remaining: 0:00:00

[104] [SO-2] [120]  
Consider the given multiple inheritance program and write the  
// Derived class

```
// Derived class
public:
int getArea() {
return (width * height);
}
}; (2 Mark- [U/C,2])
```

Select one:

- A. Class child: public father , public Mother
- B. Class Rectangle: public base , public paintcost
- C. Class Rectangle: public Shape, public paintcost
- D. Class derived : public base1, public base2

The correct answer is:  
Class Rectangle: public Shape, public paintcost

Question 3  
Correct

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C. Class Rectangle: public Shape, public paintcost  
D. Class derived : public base1, public base2

The correct answer is:  
Class Rectangle: public Shape, public paintcost

**Question 3**  
Correct  
Mark 1 out of 1  
Flag question

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**Total Time Remaining: 0:00:00**

[105] [SO-3] [60]  
public inheritance makes public members of the base class public in the derived class, and the protected members of the base class remain protected in the derived class.  
(1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

**Question 4**  
Correct  
Mark 1 out of 1  
Flag question

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(1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

Question 4  
Correct  
Mark 1 out of 1  
Flag question

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Total Time Remaining: 0:00:00

[106] [SO-3] [60]  
class PublicDerived : public Base {  
public:  
// function to access protected member from Base  
int getProt() {  
return prot;  
}  
};

However, prot is accessible to PublicDerived due to public inheritance. So, getProt() can access the protected variable from within PublicDerived. (1 Mark- [An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

Engineering

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The correct answer is 'True'.

**Question 5**  
Incorrect  
Mark 0 out of 2  
 Flag question

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**Total Time Remaining: 0:00:00**

[101] [SO-1] [120]  
Consider the following code and identify the correct way of representing the derived class with protected inheritance

```
// Derived class
class Rectangle: public Shape {
public:
    int getArea() {
        return (width * height);
    }
}; (2 Mark- [AN/C, 2])
```

Select one:

- A. class protectedRectangle: protected Shape
- B. class PrivateRectangle: protected Shape
- C. class protectedRectangle: public Shape
- D. class Rectangle: protected Shape

The correct answer is:  
class protectedRectangle: protected Shape

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The correct answer is:  
class protectedRectangle: protected Shape

Question 6

Correct

Mark 2 out of 2

Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[104] [SO-2] [120]

Consider the given multiple inheritance program and write the

// Derived class

```
public:  
int getArea() {  
return (width * height);  
}  
}; (2 Mark- [U/C,2])
```

Select one:

- A. Class child: public father , public Mother
- B. Class derived : public base1, public base2
- C. Class Rectangle: public base , public paintcost
- D. Class Rectangle: public Shape, public paintcost



The correct answer is:  
Class Rectangle: public Shape, public paintcost



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Information  
Flag question

Total Time Remaining: 0:00:00

[60]  
Radha and Krishna along with their daughter Heera lived in a house at Coimbatore. Heera's uncle who was in abroad, sent a birthday gift to Heera. Gift reached Heera before her birthday. This happens because of the exact address mentioned by Heera's uncle while sending the gift.  
With the above scenario, answer the following questions.

Questions  
1 2 3 4 5 6 7  
Show one page at a time  
Finish review

Question 1  
Correct  
Mark 1 out of 1  
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[101] [SO1] [120]  
What will be the output of the below code?  
(1 Mark-[An/C,2])

```
#include <iostream>
using namespace std;
int main () {
    int heera= 1000;
    int *heeaddr;
    heeaddr = &heera;
    cout << "Value of variable heera: ";
    cout << heera << endl;
```

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18CS306-Programming Using CPP-15.12.2021-FA10: Attempt review - Google Chrome

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[101] [SO1] [120]  
What will be the output of the below code?

(1 Mark-[An/C,2])

```
#include <iostream>
using namespace std;
int main () {
    int heera= 1000;
    int *heeeaddr;
    heeeaddr = &heera;
    cout << "Value of variable heera: ";
    cout << heera << endl;
    cout << "Address stored in heeaddr variable: ";
    cout << heeeaddr << endl;
    cout << "Value of *heeeaddr variable: ";
    cout << *heeeaddr << endl;
    return 0;
}
```

Select one:

- A. Value of variable heera: 1000  
Address stored in heeaddr variable: 0acf0126b  
Value of \*heeeaddr variable: 200
- B. Value of variable heera: 0acf0126b  
Address stored in heeaddr variable:1000  
Value of \*heeeaddr variable: 10000
- C. Value of variable heera: 100  
Address stored in heeaddr variable:1000  
Value of \*heeeaddr variable: 200
- D. Value of variable heera: 1000  
Address stored in heeaddr variable: 0acf0126b  
Value of \*heeeaddr variable: 1000

✓



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[104] [SO2] [120]  
Complete the given code to achieve the output "X=25".

(2 Marks-[An/C,3])

```
#include<iostream>
using namespace std;
class Test
{
private:
int x;
public:
void setX (int x)
{
_____; // #1
}
void print() { cout << "x = " << x << endl; }
};
int main()
{
Test obj;
int x = 25;
_____; // #2
obj.print();
return 0;
}
```

Select one:

A. #1: this->X=X;  
#2: obj.setx(X);

B. #1: this->x=x;  
#2: obj.setX(x);

C. #1: X=x;

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```
int main()
{
    Test obj;
    int x = 25;
    _____; // #
    obj.print();
    return 0;
}
```

Select one:

- A. #1: this->X=X;  
#2: obj.setx(X)
  - B. #1: this->x=x;  
#2: obj.setX(x)
  - C. #1: X=x;  
#2: obj.setX(X)
  - D. #1: this.x=X;  
#2: obj.setx(X)

The correct answer is

```
#1: this->x=x;  
#2: obj.setX(x)
```

### Question 3

Correct

Mark 1 out of 1

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#2: obj.setX(x);

**Question 3**  
Correct  
Mark 1 out of 1  
 Flag question

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**Total Time Remaining: 0:00:00**

[105] [SO3] [60]  
Which of the following operator is used to access the public member of a class using object and to access the same using object pointer respectively?

(1 Mark-[U/C,2])

Select one:

- A. .->,dot
- B. dot, ->
- C. , ,->
- D. , ,->

The correct answer is:  
dot,->

**Question 4**  
Correct  
Mark 1 out of 1  
 Flag question

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Question 4  
Correct  
Mark 1 out of  
 Flag question

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Total Time Remaining: 0:00:00

[107] [SO3] [6]

Predict the output for the below code

(1 Mark-[An/C,2])

```
class A
{
public:
int a;
};

class B:public A
{
public:
int b;
};

main()
{
A *ptr;
B b1;
ptr=&b1;
ptr->b=25;
cout<<ptr->b;
}
```

Select one

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[107] [SO3] [60]  
Predict the output for the below code.

(1 Mark-[An/C,2])

```
class A
{
public:
int a;
};

class B:public A
{
public:
int b;
};

main()
{
A *ptr;
B b1;
ptr=&b1;
ptr->b=25;
cout<<ptr->b;
}
```

Select one:

A. 20  
 B. 25  
 C. Error  
 D. F3B3980B

The correct answer is:  
Error

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Error

**Question 5**  
Correct  
Mark 1 out of 1  
 Flag question

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**Total Time Remaining: 0:00:00**

[103] [SO2] [60]  
this' pointer is passed explicitly when member functions are called.

(1 Mark-[U/C,1])

Select one:

True

False ✓

The correct answer is 'False'.

**Question 6**  
Correct  
Mark 2 out of 2  
 Flag question

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[102] [SO1] [120]

What will be the output of the following program?

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The correct answer is 'False'.

**Question 6**  
Correct  
Mark 2 out of 2  
 Flag question

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**Total Time Remaining: 0:00:00**

[102] [SO1] [120]  
What will be the output of the following program?

(2 Marks-[An/C,3])

```
#include <iostream>
using namespace std;
int main()
{
    int gift[] = { 4, 5, 6, 7 };
    int* heeaddr = (gift + 1);
    cout << *gift + 11;
    return 0;
}
```

Select one:

A. 15 

B. 13

C. 14

D. 12

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Question 7  
Correct  
Mark 2 out of 2  
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Total Time Remaining: 0:00:00

[106] [SO1] [120]  
Predict the output of the following code.

(2 Marks-[An/C,2])

```
#include <iostream.h>
class B
{
public:
int x;
void display ()
{
cout<<"X="<<x;
}
};
class D: public B
{
public:
int y;
void display ();
{
cout<<"X="<<x;
cout<<"Y="<<y;
}
};
int main ()
```

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```
cout<<"X="<<x;
cout<<"Y="<<y;
}
};

int main ()
{
B B1;
B *ptr;
ptr = &B1;
ptr->x = 10;
ptr->display();
D D1;
D *ptr1;
ptr1 = &D1;
ptr1->x = 100;
ptr1->y = 200;
ptr1->display ();
}
```

Select one:

- A. X=100 X=100 Y=200
- B. X=100 Y=200
- C. X=100 Y=100
- D. X=100 Y=200 Y=200

The correct answer is:  
X=100 X=100 Y=200

Finish review

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18CS306-Programming Using CPP-24.12.2021-FA12: Attempt review - Google Chrome

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[90]  
Radha and Krishna run an educational institution where they want the students to display their credentials in the screen and they must provide a provision to get input from the parents too. Help the students in doing the same in whatever format they need.

Show one page at a time

Finish review

Question 1  
Correct  
Mark 1 out of 1  
[Flag question](#)

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Total Time Remaining: 0:00:00

[103] [SO1] [60]  
Complete the below code to get 10 characters as input.  
(1 Mark – [An/C ,2])

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Enter name :";
    char c[10];
    _____; // #1
    cout<<c<<endl;
    return 0;
}
```

Select one:

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Correct  
Mark 1 out of 1  
Flag question

Total Time Remaining: 0:00:00

[103] [SO1] [60]  
Complete the below code to get 10 characters as input. (1 Mark – [An/C ,2])

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"Enter name :";
    char c[10];
    _____; // #1
    cout<<c<<endl;
    return 0;
}
```

Select one:

- A. cin.getline(c,10);
- B. cin.getline(c);
- C. cin.get(c,10);
- D. cin.get(10);

The correct answer is:  
cin.getline(c,10);

Question 2  
Incorrect

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Incorrect  
Mark 0 out of 1  
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[105] [SO2] [90]

Fill the line #1 in the code given to get the output "##100". (1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
    int x=100;
    cout<<setw(5);
    _____ // #1
    return 0;
}
```

Select one:

- A. cout<<set("#");
- B. cout<<setfill('#')<<x;
- C. cout<<fill('#')<<x;
- D. cout<<setfillx('#');

The correct answer is:  
cout<<setfill('#')<<x;

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The correct answer is:  
cout<<setfill('#')<<x;

**Question 3**  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[107] [SO3] [60]

\_\_\_\_\_ is a method of cin object which is used to input a string with multiple spaces.

(1 Mark – [An/C ,2])

Select one:

A. getline(char \*buffer,int size) 

B. putline(char \*buffer,int size)

C. puts(char \*buffer)

D. getline(size)

The correct answer is:  
getline(char \*buffer,int size)

**Question 4**  
Correct  
Mark 1 out of 1

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**Question 4**  
Correct  
Mark 1 out of 1  
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**Total Time Remaining: 0:00:00**

[106] [SO2] [90]  
Guess the output of the following code.

(1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
    float x=12.01234;
    cout<<setprecision(4)<<x;
    return 0;
}
```

Select one:

A. 12.0  
 B. 12.012  
 C. 12  
 D. 12.01

The correct answer is:  
12.01

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Question 5

Incorrect

Mark 0 out of 1

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[101] [SO1] [60]

Which of the following class is indirectly inherited to iostream?

(1 Mark – [U/C ,2])

Select one:

- A. ios
- B. iclass
- C. istream
- D. ostream

The correct answer is:  
ios

Question 6

Incorrect

Mark 0 out of 2

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[102] [SO1] [120]



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Question 6

Incorrect

Mark 0 out of 2

Flag question

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[102] [SO1] [120]

Match the following formatted or unformatted I/O operations with its method and description.

(2 Marks – [U/C ,2])

| Formatted/Unformatted I/O (A)    | Method (B)                         | Description(C)                                   |
|----------------------------------|------------------------------------|--------------------------------------------------|
| A1. Unformatted console input    | B1. skipws                         | C1. Unused space filled with specified character |
| A2. Unformatted console output   | B2. fill(char)                     | C2. Omits white space in the input               |
| A3. Formatted ios class function | B3. void put()                     | C3. Input a string with multiple spaces          |
| A4. Formatted manipulators       | B4. getline(char *buffer,int size) | C4. Print character on the screen                |

Select one:

A. A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

B. A1-B3-C1;A2-B4-C4;A3-B2-C3;A4-B2-C2

C. A1-B1-C1;A2-B2-C2;A3-B3-C3;A4-B4-C4

D. A1-B4-C4; A2-B3-C3; A3-B2-C2; A4-B1-C1

The correct answer is:  
A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

Question 7

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The correct answer is:  
A1-B3-C4;A2-B4-C3;A3-B1-C2;A4-B2-C1

Question 7

Correct

Mark 2 out of 2

Flag question

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Total Time Remaining: 0:00:00

[108] [SO3] [90]

What will be the output of the below codes in the input is 200?

(2 Marks – [An/C ,2])

- stream.setf(ios::showpos)
- stream.setf(ios::showpoint)

Select one:

- A. 200+, 200.000
- B. +200, 200.00
- C. +200, 2.00
- D. 200.00, 200.000

The correct answer is:  
+200, 200.00

Question 8

Incorrect

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Question 8  
Incorrect  
Mark 0 out of 1  
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Total Time Remaining: 0:00:00

[104] [SO2] [60]  
Guess the output of the following code.

(1 Mark – [An/C ,2])

```
#include<iostream>
#include<iomanip>
using namespace std;
int main()
{
    int x=100;
    cout<<setw(5)<<x;
    return 0;
}
```

Select one:

A. 100 X

B. 100

C. 100

D. 100

The correct answer is:  
100

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[60]  
Consider the file named as Sample.txt which is present in your local drive. Answer the below questions using the concept of file streams to perform some operations on the file.

Question 1  
Incorrect  
Mark 0 out of 2  
Flag question

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Total Time Remaining: 0:00:00

[107] [SO-3] [180]

```
#include <iostream>
#include <fstream>
using namespace std;
int main()
{ ofstream fout;
    string line;
    fout.open("sample.txt");
    _____ // Fill the codes here
    _____
    _____
    _____
```

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```
[107] [SO-3] [180]
#include <iostream>
#include <fstream>
using namespace std;
int main()
{ ofstream fout;
string line;
fout.open("sample.txt");
_____  
_____  
_____  
_____  
_____  
_____
fout.close();
ifstream fin;
fin.open("sample.txt");
while (fin)
{ getline(fin, line); cout << line << endl; }
fin.close();
return 0;
}
```

**// Fill the codes here**

Complete the above code to write the content into the file and read the content from the file using ifstream and ofstream class objects. (2 Marks-[Ap/P,3])

Select one:

A. while (fout)  
{ getline(cins, line);  
if (line == "-1")  
{  
break;  
}  
fout << Sample.txt << endl;  
}

B. while (fout)

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- C. 

```
while (fout)
{ getline(cin, line)
if (line == "-1")
{
break;
}
fout << line << endl
}
```
- D. 

```
while (fout)
{ getline(cin, lines)
if (line == "-1")
{
breaking;
}
fout << line << endl
}
```

```
The correct answer is  
while (fout)  
{ getline(cin, line);  
if (line == "-1")  
{  
break;  
}  
fout << line << endl  
}
```

Question 2

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```
break;
}
fout << line << endl;
}
```

Question 2  
Incorrect  
Mark 0 out of 1  
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Total Time Remaining: 0:00:00

[102] [SO-1] [60]  
In the above scenario, If you want to trim the contents which are present in “Sample.txt” file then the flag to be used is \_\_\_\_\_ . (1 Marks-[An/C,1])

Select one:

- A. ios::app
- B. ios::ate
- C. ios::in
- D. ios::trunc

The correct answer is:  
ios::trunc

Question 3  
Incorrect  
Mark 0 out of 1  
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The correct answer is:  
**ios::trunc**

**Question 3**  
Incorrect  
Mark 0 out of 1  
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[106] [SO-2] [75]  
Consider the above program (Question 105). If you need to modify the above program for reading the content from the file “Sample.txt”, what flag should be used instead of ios::out. (1 Marks-[An/C,2])

Select one:

- A. ios::seek
- B. ios::in
- C. ios::ate
- D. ios::app

The correct answer is: **ios::in**

**Question 4**  
Incorrect  
Mark 0 out of 1  
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The correct answer is: **ios::in**

**Question 4**  
Incorrect  
Mark 0 out of 1  
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**Total Time Remaining: 0:00:00**

[101] [SO-1] [45]

**What flag will be used to open the file “Sample.txt” for writing?**  
(1 Marks-[U/C,1])

Select one:

- A. **ios::in** ×
- B. **ios::app**
- C. **ios::ate**
- D. **ios::out**

The correct answer is: **ios::out**

**Question 5**  
Incorrect  
Mark 0 out of 1  
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The correct answer is: **ios::out**

**Question 5**  
Incorrect  
Mark 0 out of 1  
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**Total Time Remaining: 0:00:00**

[104] [SO-2] [60]  
Consider the above scenario, Which flag will be used to open a file “Sample.txt” for output and moving the read/write control to the end of the file. (1 Marks-[An/C,2])

Select one:

- A. **ios::ate**
- B. **ios::app**
- C. **ios::in**
- D. **ios::out**

The correct answer is: **ios::ate**

**Question 6**  
Correct  
Mark 1 out of 1  
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Question 6

Correct

Mark 1 out of 1

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[108] [SO-3] [60]

**The `put()` method is used to writes a single character to file. (1 Mark-[An/C,1])**

Select one:

- True ✓  
 False

The correct answer is 'True'.

Question 7

Correct

Mark 1 out of 1

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[103] [SO-2] [50]

**In the above scenario, the `ios::app` flag mode is used to append all the output at the end of the file with already existing contents.**

(1 Mark-[An/C,1])



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The correct answer is 'True'.

Question 7  
Correct  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[103] [SO-2] [50]  
**In the above scenario, the ios::app flag mode is used to append all the output at the end of the file with already existing contents.**  
(1 Mark-[An/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

Question 8  
Incorrect  
Mark 0 out of 2  
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moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1572771&cmid=54055

Question 8  
Incorrect  
Mark 0 out of 2  
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```
[105] [SO-2] [145]
#include<iostream>
#include<conio>
#include <fstream>
using namespace std;
int main()
{ _____ // Step 1: Create object of fstream class
_____ // Step 2: Create new file
if(!st)
{
cout<<"File creation failed";
}
else
{
cout<<"New file created";
_____ // Step 3: Close the file
}
getch();
return 0;
}
```

Complete the above code to create/open a file by specifying new path of the file and mode of operation. (2 Marks-[Ap/P,2])

Select one:

A. `filestream st;`  
`st.open("E:\\Sample.txt",ios::out);`  
`st.close();`

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```
    }
else
{
cout<<"New file created";
    // Step 3: Close the file
}
getch();
return 0;
}
```

Complete the above code to create/open a file by specifying new path of the file and mode of operation. (2 Marks-[Ap/P,2])

Select one:

- A. **filestream st;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- B. **stream str;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- C. **fstream stream;**  
st.open("E:\\Sample.txt",ios::out);  
st.close();
- D. **fstream st;** st.open("E:\\Sample.txt",ios::out);  
st.close();

The correct answer is:  
**fstream st;** st.open("E:\\Sample.txt",ios::out);  
st.close();

Finish review

 [moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1583503&cmid=54587](https://moodle.bitsathy.ac.in/mod/quiz/review.php?attempt=1583503&cmid=54587)

## May question

```
[150]
#include <iostream>
using namespace std;
class Employee {
public:
    float salary = 75000;
};

class ITAnalyst: public Employee {
public:
    float bonus = 7500;
};

int main(void) {
    ITAnalyst obj1;
    cout<<"Salary: "<<obj1.salary<<endl;
    cout<<"Bonus: "<<obj1.bonus<<endl;
    return 0;
}
```

Consider the above C++ program which is used to fix the salary of an employee in an IT industry. And depends upon the employee designation, he/she will get the bonus amount in addition to the salary.

## Question 1

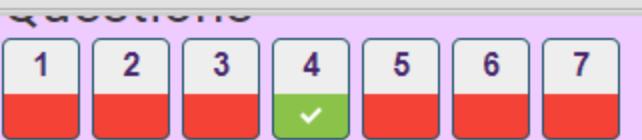
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Question

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Total Time Remaining: 0.00.00

[107] [SO3] [120]

What will be the output of the following code?

(2 Marks-[An/C,1])

```
#include<iostream>
using namespace std;
class A {
public:
    void display() { cout << " In Class A"; }
};
class B: public A {
public:
    void display() { cout << " In Class B"; }
};
class C: public B {};
int main(void)
{
    C c;
    c.display();
    return 0;
}
```

Select one:

A. In Class A

B. Error

C. In class B

D. In Class A

In Class B

×

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18CS306-Programming Using CPP-03.01.2022-FA14: Attempt review - Google Chrome

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```
void display() { cout << "In Class A"; }
};

class B: public A {
public:
    void display() { cout <<" In Class B"; }
};

class C: public B {};
int main(void)
{
    C c;
    c.display();
    return 0;
}
```

Select one:

- A. In Class A
- B. Error
- C. In class B
- D. In Class A

In Class B

The correct answer is:  
In class B

Question 2  
Incorrect  
Mark 0 out of 2  
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Question 2  
Incorrect  
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[105] [SO3] [120]

In the above scenario, we are adding a class `Extrawage` which will have the member data ‘`wage`’ for giving extra money to the employees who works beyond 8 hours/day. This class will also be inherited by `ITAnalyst` class in addition to `Employee` class.

Which of these statements will adhere to this situation?

(2 Marks-[An/C.3])

- It comes under hierarchical inheritance.
  - Syntax is:
  - Class Extrawage: public Employee
  - Class Employee: public ITAnalyst
  - It comes under hybrid inheritance
  - It comes under multiple inheritance
  - Syntax is:
  - Class ITAnalyst: public Employee, public Extrawage
  - Syntax is:
  - Class ITanalyst: public extrawage
  - Class ITAnalyst: public Employee

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- It comes under hybrid inheritance
- It comes under multiple inheritance
- Syntax is:
- Class ITAnalyst: public Employee, public Extrawage
- Syntax is:
- Class ITanalyst: public extrawage
- Class ITAnalyst: public Employee

Select one:

A. II, IV

B. IV, VI

C. IV, V

D. I,IV, VI

x

The correct answer is:

IV, V

Question 3  
Incorrect  
Mark 0 out of 1  
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[104] [SO2] [60]

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Question 3  
Incorrect  
Mark 0 out of 1  
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[104] [SO2] [60]

Given scenario comes under \_\_\_\_\_ type of inheritance.

(1 Mark-[U/C,1])

Select one:

- A. Hybrid
- B. Multiple
- C. Multilevel
- D. Single



The correct answer is:  
Single

Question 4  
Correct  
Mark 1 out of 1  
Flag question

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The correct answer is:  
Single

**Question 4**  
Correct  
Mark 1 out of 1  
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**Total Time Remaining: 0:00:00**

[101] [SO1] [60]  
State true or false.  
In the given scenario, the data member salary inside the ITAnalyst class can be accessible.

(1 Mark-[U/C,1])

Select one:

True ✓  
 False

The correct answer is 'True'.

**Question 5**  
Not answered  
Marked out of 1  
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The correct answer is 'True'.

**Question 5**  
Not answered  
Marked out of 1  
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[106] [SO3] [90]

Which of the following comes under multilevel inheritance?

(1 Mark-[An/C,1])

Select one:

- A. Class A:protected C  
Class A: private B
- B. Class B:public A  
Class C:public B
- C. Class B: public A,public C
- D. Class B:private A  
Class B:public C

The correct answer is:  
Class B:public A  
Class C:public B

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Class C:public B

Question 6  
Not answered  
Marked out of 1  
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[102] [SO1] [60]

What will be the output of the code given in the scenario?

(1 Mark-[U/C,1])

Select one:

- A. **Salary: 75000**  
Bonus: 7500
- B. **Bonus:7500**  
Salary: 75000
- C. **Salary: 75000**
- D. **Bonus: 7500**

The correct answer is:  
**Salary: 75000**  
**Bonus: 7500**

Question 7  
Not answered

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Bonus: 7500

Question 7  
Not answered  
Marked out of 2  
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[103] [SO2] [120]

**Consider a portion of the above code is modified and given as:**

```
class Employee {  
    protected:  
        float salary = 75000;  
};  
  
class ITAnalyst: private Employee {  
    protected:  
        float bonus = 7500;  
};
```

**Pick the right statements.**

(2 Marks-[An/C,3])

- Salary will be protected inside ITAnalyst
- Bonus will be protected inside ITAnalyst
- Both Salary and Bonus will be protected inside ITAnalyst
- Both Salary and Bonus will be private inside ITAnalyst
- Salary will be private inside ITAnalyst.

Select one:

Type here to search

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```
protected:  
float salary = 75000;  
};  
  
class ITAnalyst: private Employee {  
protected:  
float bonus = 7500;  
};
```

**Pick the right statements.**

(2 Marks-[An/C,3])

- **Salary will be protected inside ITAnalyst**
- **Bonus will be protected inside ITAnalyst**
- **Both Salary and Bonus will be protected inside ITAnalyst**
- **Both Salary and Bonus will be private inside ITAnalyst**
- **Salary will be private inside ITAnalyst.**

Select one:

- A. III, IV, V
- B. I, II, IV
- C. II, IV
- D. I, III, V

The correct answer is:  
II, IV

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[75]

The diagram shows three components of exception handling: 01 try block (yellow circle), 02 catch block (blue circle), and 03 throw statement (pink circle). Arrows indicate the flow from the throw statement to the try block, and from the try block to the catch block.

Figure 1: Exception Handling Mechanism

Figure 1 shows the keywords to be used for handling the exceptions. Answer the below questions based on the given mechanism.

Question 1  
Correct  
Mark 1 out of 1  
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[106] [SO-3] [45]

1 2 3 4 5 6 7 8

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```
using namespace std;
int main()
{
    int x = -1;
    cout << "Before try \n";
    try {
        _____ // Fill the codes here
        _____
        _____
    }
    catch (int x) { cout << "Exception Caught \n"; }
    cout << "After catch (Will be executed) \n";
    return 0;
}
```

Output:

Before try  
Inside try  
Exception Caught  
After catch (Will be executed)

Complete the above code to obtain the given output. (2 Marks-[Ap/P,2])

Select one:

A. `cin << "Inside try \n";  
if (x <= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

B. `cout << "Inside try \n";  
if (x >= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

C. `cin << "Inside try \n";  
if (x >= 0)  
{  
throw x;`

×

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O D1 C F1 G1 I PDF G

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18CS306-Programming Using CPP-04.01.2022-FA15: Attempt review - Google Chrome

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Inside try  
Exception Caught  
After catch (Will be executed)

Complete the above code to obtain the given output. (2 Marks-[Ap/P,2])

Select one:

A. `cin << "Inside try \n";  
if (x <= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

B. `cout << "Inside try \n";  
if (x >= 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

C. `cin << "Inside try \n";  
if (x >= 0)  
{  
throw x;  
cout << "After throw (Never executed) \n"; }`

D. `cout << "Inside try \n";  
if (x < 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }`

The correct answer is:

```
cout << "Inside try \n";  
if (x < 0)  
{ throw x;  
cout << "After throw (Never executed) \n"; }
```

Question 3  
Correct  
Mark 2 out of 2  
 Flan

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```
[105] [SO-2] [150]
#include <iostream>
using namespace std;
float division(int x, int y) {
if( y == 0 ) {
throw "Attempted to divide by zero!";
} return (x/y);
}
int main () {
int i = 25; int j = 0; float k = 0;

_____
_____
_____
_____
return 0;
}
```

**Output:**  
Attempted to divide by zero!

Complete the code to achieve the given output. (2 Marks-[Ap/P,2])

Select one:

- A. try  

```
{ k = divi(i, j);
cout << k << endl;
} catchs(const char* e)
{ cerr << e << endl; }
```
- B. try  

```
{ s = division(10);
cout << k << endl;
} catch (const char* e)
{ cerr << e << endl; }
```
- C. catch  

```
{ k = division(i, j);
cout << k << endl;
```

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**Attempted to divide by zero!**  
Complete the code to achieve the given output. (2 Marks-[Ap/P,2])

Select one:

A. try  

```
{ k = divi(i, j);  
cout << k << endl;  
} catchs(const char* e)  
{ cerr << e << endl; }
```

B. try  

```
{ s = division(10);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

C. catch  

```
{ k = division(i, j);  
cout << k << endl;  
} try (const char* e)  
{ cerr << e << endl; }
```

D. try  

```
{ k = division(i, j);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

The correct answer is:  

```
try  
{ k = division(i, j);  
cout << k << endl;  
} catch (const char* e)  
{ cerr << e << endl; }
```

Question 4  
Correct  
Mark 1 out of 1

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Correct  
Mark 1 out of 1  
Flag question

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[107] [SO-2] [75]  
Predict the output for the below given code.

```
#include <iostream>
using namespace std;
int main()
{
try {
throw 10;
} catch (char *excp) {
cout << "Caught Exception" << excp;
}
catch (...) {
cout << "Default Exception\n";
}
return 0;
} (1 Marks-[Ap/P,1])
```

Select one:

- A. Default Exception
- B. cexcp
- C. Caught Exception
- D. 10

The correct answer is: Default Exception

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- B. A1-B3, A2-B2, A3-B1
- C. A1-B2, A2-B3, A3-B1
- D. A1-B2, A2-B1, A3-B3

The correct answer is: A1-B2, A2-B3, A3-B1

Question 6  
Correct  
Mark 1 out of 1  
 Flag question

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[108] [SO-3] [45]

A try block identifies a block of code for which particular exceptions will be activated. It's followed by one or more catch blocks. State True or False.  
(1 Mark-[An/C,1])

Select one:

- True ✓
- False

The correct answer is 'True'.

Question 7  
Correct  
Mark 1 out of 1  
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The correct answer is 'True'.

**Question 7**  
Correct  
Mark 1 out of 1  
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[101] [SO-1] [45]  
\_\_\_\_\_ in C++ is a process to handle runtime errors.  
(1 Marks-[U/C,1])

Select one:

- A. Output handling
- B. Exception handling
- C. Error handling
- D. File handling

The correct answer is: **Exception handling**

**Question 8**  
Incorrect  
Mark 0 out of 1  
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Incorrect  
Mark 0 out of 1  
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[103] [SO-1] [60]

Predict the output for the below given code.

```
#include <iostream>
using namespace std;
float division(int x, int y)
{ return (x/y);
}
int main()
{ int i = 50;
int j = 0;
float k = 0;
k = division(i, j);
cout << k << endl;
return 0;
} (1 Marks-[Ap/P,1])
```

Select one:

A. infinity

B. 0

C. Floating point exception (core dumped)

D. 1

The correct answer is: Floating point exception (core dumped)

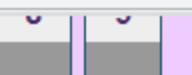
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INFORMATION  
Flag question

Consider the Fig 1.1 as shown below. If all the parts are dismantled in this case and a student is asked to assemble the processor , he / she has to follow the following steps 1 to 11 in the given sequence. Each component plays a vital role inside a processor . For Example the hard drive is used to store the data based on its capacity . All the operations will be performed inside the CPU .All the ALU operations are performed by the processor .



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As the processor only accepts 0's and 1's the Human Understandable Language must be converted into Assembly Language using Interpreter and Assembler . The human understandable language are written in the form of algorithm as described in the steps and the human and machine understandable language is called as a Pseudocode .



Fig . 1.1

Step 1 : Open Case

Step 2 Mount Motherboard

Step 3 : Mount Processor (CPU)

Step 4 : Install CPU cooler

Step 5 : Install Power Supply

Step 6: Install Mount Memory (RAM)

Step 7 :Install Graphics Cards

Step 8: Mount Storage Devices

Step 9 : Mount official Drive

Step 10 : Connect Case fans and Front Panel Connector

Step 11 : Close Case and Connect Peripherals

Answer the following Questions based on the given scenario.

NO more attempts are allowed



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**Question 1**

Complete

Mark 1 out of 1

Flag question

From the given scenario, Identify the representation of the steps to assemble the components inside the processor

[An/C,2]

- A. Program Instructions
- B. Algorithm
- C. Logic
- D. Abstract Data Type
- E. Data Structure

**Question 2**

Complete

Mark 1 out of 1

Flag question

Consider for example I would like to store two different movies in my hard drive under the folder named MOVIES. But I do not know in which memory location it is been exactly stored inside the memory (hard drive). This process of storage representation inside the memory is called?

. [An/C,2]

- A. Encapsulation
- B. Abstract data type
- C. Memory Abstraction
- D. Data Structure

**Question 3**

Complete

Mark 1 out of 1

Flag question

Identify the Missing sequence X in the following Pseudocode to add two numbers

```
BEGIN
NUMBER s1, s2, sum
OUTPUT("Input number1:")
INPUT s1
OUTPUT("Input number2:")
INPUT s2
_____ X _____
OUTPUT sum
END
```

No more attempts are allowed



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Question 2  
Complete  
Mark 1 out of 1

Consider for example I would like to store two different movies in my hard drive under the folder named MOVIES. But I do not know in which memory location it is been exactly stored inside the memory (hard drive). This process of storage representation inside the memory is called?

[An/C,2]

- A. Encapsulation
- B. Abstract data type
- C. Memory Abstraction
- D. Data Structure

Question 3

Complete

Mark 1 out of 1

Flag question

Identify the Missing sequence X in the following Pseudocode to add two numbers

```
BEGIN
NUMBER s1, s2, sum
OUTPUT("Input number1:")
INPUT s1
OUTPUT("Input number2:")
INPUT s2
_____ X _____
OUTPUT sum
END
```

[An/P,2]

- A. sum=s1+s2+s3
- B. sum=s1+s2
- C. add=s1+s2+s3
- D. sum=add1+add2
- E. add=s1+s2

Information

Flag question

Consider the following memory block and answer the following questions:

(Note: Green blocks represent free memory locations)

NO more attempts are allowed



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[A/I/P,2]

- A. sum=s1+s2+s3
- B. sum=s1+s2
- C. add=s1+s2+s3
- D. sum=add1+add2
- E. add=s1+s2

Information

Flag question

Consider the following memory block and answer the following questions:

(Note: Green blocks represent free memory locations)

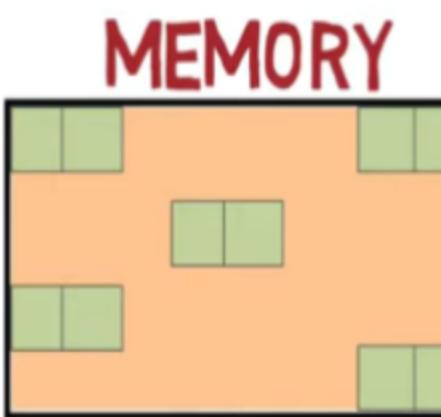


Fig 1.2

Question 4

Complete

Mark 1 out of 1

Flag question

The memory blocks shown in the above Fig 1.2 can be used to store an array of 5 elements.

[U/C,2]

Select one:

 True False

Question 5

Complete

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

No more attempts are allowed



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Fig 1.2

## Question 4

Complete

Mark 1 out of 1

 Flag question

The memory blocks shown in the above Fig 1.2 can be used to store an array of 5 elements.

[U/C,2]

Select one:

- True  
 False

## Question 5

Complete

Mark 0 out of 2

 Flag question

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

[Ap/C,2]

- A. Constant Time  
 B. Sequential Time  
 C. Quadratic Time  
 D. Linear Time  
 E. Exponential Time

## Question 6

Complete

Mark 1 out of 1

 Flag question

Consider the following images as shown in Fig 1.3 and identify the correct statement(s):



Fig 1.3 [U/C,2]

NO more attempts are allowed



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Question 5

Complete

Mark 0 out of 2

Flag question

Assume the processor computes addition of two numbers. Determine the time taken by the processor if they already know where the data is actually resided in memory.

[Ap/C,2]

- A. Constant Time
- B. Sequential Time
- C. Quadratic Time
- D. Linear Time
- E. Exponential Time

Question 6

Complete

Mark 1 out of 1

Flag question

Consider the following images as shown in Fig 1.3 and identify the correct statement(s):

Image 1:

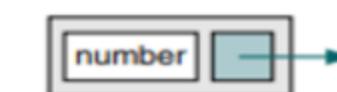


Image 2:



Fig 1.3 [U/C,2]

- A. Graph
- B. Tree
- C. Queue
- D. Stack
- E. List

Question 7

Complete

Mark 0 out of 1

Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic

No more attempts are allowed



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Flag question

Image 2:



Fig 1.3 [U/C,2]

- A. Graph
- B. Tree
- C. Queue
- D. Stack
- E. List

Question 7

Complete

Mark 0 out of 1

 Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic
- B. Looping Logic
- C. Iterative Logic
- D. Branching Logic
- E. Selection Logic

Question 8

Complete

Mark 0 out of 1

 Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only

No more attempts are allowed



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Question 7

Complete

Mark 0 out of 1

Flag question

If 5 elements: 10, 20, 30, 40, 50 are to be placed in the given memory blocks in the specified order. Consider a search algorithm is written to identify a number 30 from memory. Predict the suitable type of algorithm that can be used to complete the process.,

[U/C,2]

- A. Sequencing Logic
- B. Looping Logic
- C. Iterative Logic
- D. Branching Logic
- E. Selection Logic

Question 8

Complete

Mark 0 out of 1

Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only
- B. ii and iv only
- C. i and ii only
- D. ii and iii only
- E. i only

Question 9

Complete

Mark 0 out of 1

Flag question

Suppose the given memory blocks are used as linked list nodes, the first part of the node is used to store the data and second part is used to store? (Refer Fig 1.2)

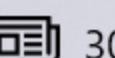
[U/C,2]

- A. Size of the data
- B. Address of free memory block
- C. Address of next memory location

No more attempts are allowed



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Question 8

Complete

Mark 0 out of 1

Flag question

Which of the following statements about linked list data structure is/are TRUE?

Addition and deletion are efficient in linked list than array.

The linked list pointers do not provide an efficient way to search an item in the linked list

Linked list pointers always maintain the list in ascending order

The linked list data structure provides an efficient way to find kth element in the list

[U/C,2]

- A. iv only
- B. ii and iv only
- C. i and ii only
- D. ii and iii only
- E. i only

Question 9

Complete

Mark 0 out of 1

Flag question

Suppose the given memory blocks are used as linked list nodes, the first part of the node is used to store the data and second part is used to store? (Refer Fig 1.2)

([U/C,2])

- A. Size of the data
- B. Address of free memory block
- C. Address of next memory location
- D. Address of the data
- E. Datatype of the data

Finish review

No more attempts are allowed



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**Grade** 6 out of 10 (60%)

Information

Flag question

Consider a music player which consists of the following features.

- Display songs in list from device
- Songs list by Songs Artist, Album Files, and Folder etc...
- Play selected song
- Add song to queue
- Play Song in background
- Stop, Next and Previous Song
- Progress of Song
- Time Duration of Song
- Set Setting of App
- Share Song on Social Media like Facebook WhatsApp etc.
- Tag Editor also Available to change song tag
- It Have Also functionality like... Shuffle all Song, Shuffle specific Song, Repeat Song, Change widget style of App, Change Audio Visualizer, Set Equalizer, Add to Playlist, and Set as Ringtone.

Show one page at a time

Finish review

**Question 1**

Complete

Mark 1 out of 1

Flag question

Look at the Fig2.1 given below. The Music player consists of the forward and backward button. Choose the data structure used to implement the functionality of Skip forward and Backward .

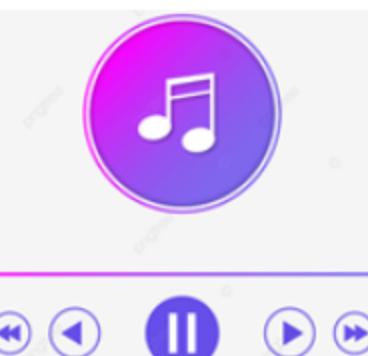


Fig 2.1

- It Have Also functionality like... Shuffle all Song, Shuffle specific Song, Repeat Song, Change widget style of App, Change Audio Visualizer, Set Equalizer, Add to Playlist, and Set as Ringtone.

**Question 1**

Complete

Mark 1 out of 1

Flag question

Look at the Fig2.1 given below. The Music player consists of the forward and backward button. Choose the data structure used to implement the functionality of Skip forward and Backward .

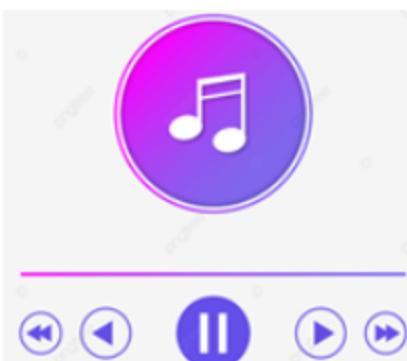


Fig 2.1

- a. One Dimensional Array
- b. Singly Linked List
- c. Circular Linked List
- d. Doubly Linked List

**Question 2**

Complete

Mark 1 out of 1

Flag question

Identify the data structure to be used in the album has to be run on a loop..

[Ap/C,2]

- a. Circular Linked List
- b. Stack Data Structure
- c. Queue Data Structure
- d. Queue Data Structure

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- d. Doubly Linked List

**Question 2**

Complete

Mark 1 out of 1

 Flag question

Identify the data structure to be used in the album has to be run on a loop..

[Ap/C,2]

- a. Circular Linked List
- b. Stack Data Structure
- c. Queue Data Structure
- d. Queue Data Structure

**Question 3**

Complete

Mark 0 out of 1

 Flag question

In my music player already there are 10 songs are added to the album AR Rahman Music, now I wish to add five more songs to the album AR Rahman. The implementation requires stack Data Structure.

[U/C,2]

Select one:

- True
- False

**Question 4**

Complete

Mark 1 out of 1

 Flag question

If I wish to delete a song that is inserted at first in my Music Player Album. Determine the time taken to delete a song?

[E/C,2])

- a.  $O(n^*n)$
- b.  $O(1)$
- c.  $O(n\log n)$
- d.  $O(\sqrt{n})$



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[Home](#)[Dashboard](#)[Events](#)[My courses](#)[This course](#)[⚙️](#) [Hide blocks](#) [Standard view](#)**Question 4**

Complete

Mark 1 out of 1

[Flag question](#)

If I wish to delete a song that is inserted at first in my Music Player Album. Determine the time taken to delete a song?  
[E/C,2]

- a.  $O(n^*n)$
- b.  $O(1)$
- c.  $O(n\log n)$
- d.  $O(\text{orange})$

**Question 5**

Complete

Mark 1 out of 1

[Flag question](#)

For the given polynomial:  $6x^3+4x^2+5x+2$ , compute the maximum degree of polynomial.  
([Ap/C,2])

- a. 3
- b. 6
- c. 2
- d. 5

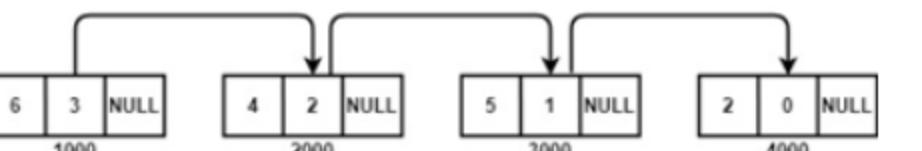
**Question 6**

Complete

Mark 0 out of 1

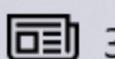
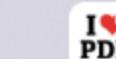
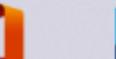
[Flag question](#)

Select the linked list representation of the given polynomial  $6x^3+4x^2+5x+2$ .  
([Ap/C,2])

- a. 
- b. 



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question

- a. 3
- b. 6
- c. 2
- d. 5

**Question 6**

Complete

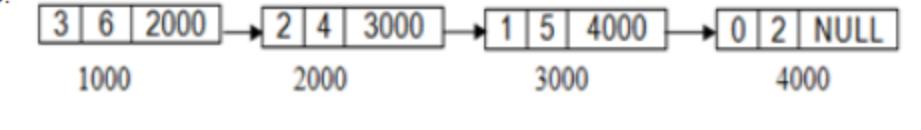
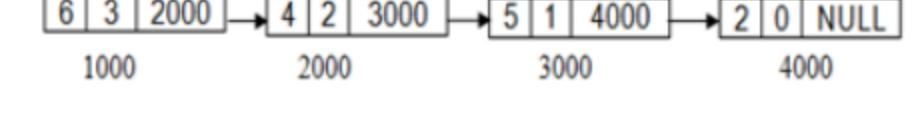
Mark 0 out of 1

Flag question

Select the linked list representation of the given polynomial  $6x^3 + 4x^2 + 5x + 2$ .  
([Ap/C,2])

- a.  

- b.  

- c.  

- d.  


**Question 7**

Complete

Mark 2 out of 2

Flag question

Find the missing statement X in the following code that contains the logic to insert a new node 40 as shown in Fig 2.2 at the end of a given singly linked list



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**Question 7**

Complete

Mark 2 out of 2

Flag question

Find the missing statement X in the following code that contains the logic to insert a new node 40 as shown in Fig 2.2 at the end of a given singly linked list

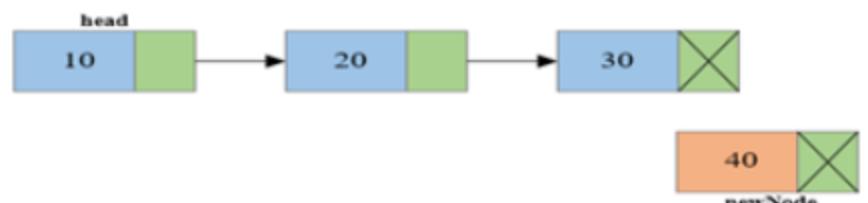


Fig 2.2

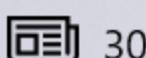
```
void insert_at_end(int data)
{
    struct node *newNode, *temp;
    newNode = (struct node*)malloc(sizeof(struct node));
    if(newNode == NULL)
    {
        printf("Unable to allocate memory");
    }
    else { newNode->data = data; newNode->next = NULL; temp = head;
            while(temp->next != NULL)
            {
                temp = temp->next;
                _____ X _____; }}}
```

([Ap/C,2])

- a. temp->next = temp --> data
- b. temp->next=newNode;
- c. temp--> next = temp
- d. temp->data=newNode

**Question 8**

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**Question 8**

Complete

Mark 0 out of 2

Flag question

| A. Type of list         | B. Property                              | C. Representation |
|-------------------------|------------------------------------------|-------------------|
| 1. Singly linked list   | 1. Points to both Previous and next node | <br>1.            |
| 2. Doubly linked list   | 2. Last node points to first node        | <br>2.            |
| 3. Circular linked list | 3. Points to the next node               | <br>3.            |

- a. A1-B3-C1; A2-B1-C3; A3-B2-C2
- b. B3-C2; A2-B1-C3; A3-B2-C1
- c. A1-B1-C3; A2-B2-C1; A3-B3-C2
- d. A1-B2-C2; A1-B3-C3; A3-B1-C1

Information

Flag question

Consider in a cellular network, a group is created with a list of mobile users. Every mobile phone is mapped with a single IP Address. The Cellular Network Administrator maintains a list of all IP address of all the mobile phones accessing the network. A firewall is used to detect the anonymous IP's from intruding the network using IP whitelist and IP blacklist maintained by the network administrator. IP whitelist is the list of all IP address that is authorized to access the network and IP black list is the list of all unauthorized network. If any new unauthorized IP address is found by the admin then he has to update the IP black list. Similarly if any new authorized user is added to the network then the admin has to update the IP whitelist. Group administrator is responsible for communicating the updates happening to the whitelists and blacklists to all other members in the group.



Based on this scenario answer the following questions:

Question 1

Complete

Mark 0 out of 1

Flag question

Identify the type of linked list is used to forward the message from the head to all the members in the group?

(1 Mark-[U/C,2])

- A. Doubly Linked List
- B. Singly Linked List
- C. Circular Linked List
- D. Array

Question 2

Complete

Mark 0 out of 1

Consider that your firewall has identified an IP that should be blocked. You have to block that IP from the list. Identify the operation involved in the list of blocking IP?

(1 Mark-[U/C,2])

Show one page at a time  
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[Home](#)[Dashboard](#)[Events](#)[My courses](#)[This course](#)[⚙️ Hide blocks](#)[Standard view](#)**Question 2**

Complete

Mark 0 out of 1

[Flag question](#)

Consider that your firewall has identified an IP that should be blocked. You have to block that IP from the list. Identify the operation involved in the list of blocking IP?

(1 Mark-[U/C,2])

- A. Removing IP to the Whitelist
- B. Removing IP to the blacklist
- C. Adding IP to the Whitelist
- D. Adding IP to the blacklist

**Question 3**

Complete

Mark 1 out of 1

[Flag question](#)

Assertion: In the above question no :03, we do not know how many IP's are blacklisted in a day?

Reason : This implies that linked list is resizable (i.e) Dynamic.

(1 Mark-[U/C,2])

- A. Assertion is True and Reason is False
- B. Both the Assertion and Reason are False
- C. Assertion is False and reason is True
- D. Both Assertion and Reason are True

**Question 4**

Complete

Mark 0 out of 1

[Flag question](#)

Identify the following statement is True or False:

A message is divided into several packets. Each packet is assigned with a key which connects to the next key( i.e, next packet) and so on, to the n-th key, to make the whole text message wherein it contains the key and the actual data. Thus, every message transfer contains packets of a messages linked from first packet to the last packet. Does this series of packets can be represented by circular linked list?

(1 Mark-[U/C,2])



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**Question 4**

Complete

Mark 0 out of 1

Flag question

Identify the following statement is True or False:

A message is divided into several packets. Each packet is assigned with a key which connects to the next key( i.e, next packet) and so on, to the n-th key, to make the whole text message wherein it contains the key and the actual data. Thus, every message transfer contains packets of a messages linked from first packet to the last packet. Does this series of packets can be represented by circular linked list?

(1 Mark-[U/C,2])

Select one:

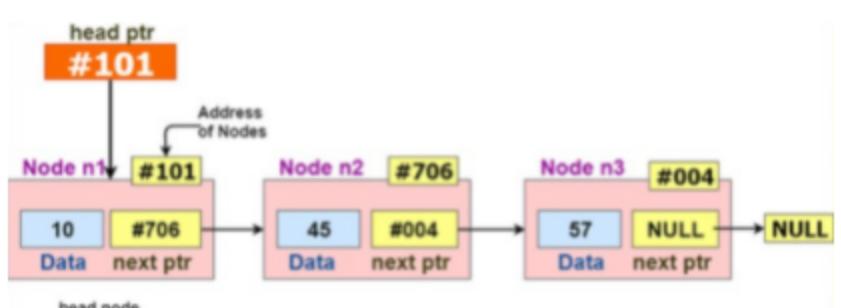
- True  
 False

**Information**

Flag question

Consider the following snippet of code to create the single node .

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```



Select one:

True

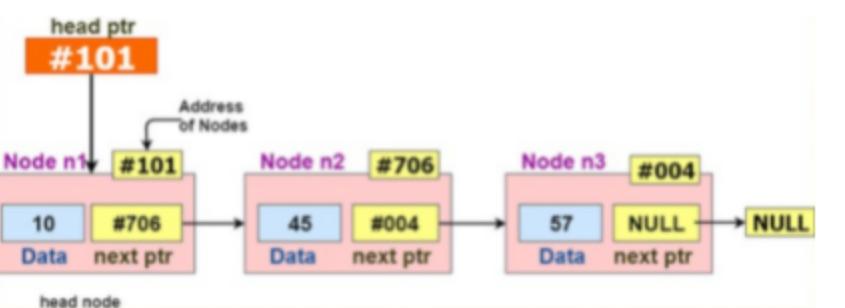
False

Information

Flag question

Consider the following snippet of code to create the single node .

```
struct node
{
    int data;
    struct node * next;
}
typedef struct node NODE;
NODE *ptr;
```



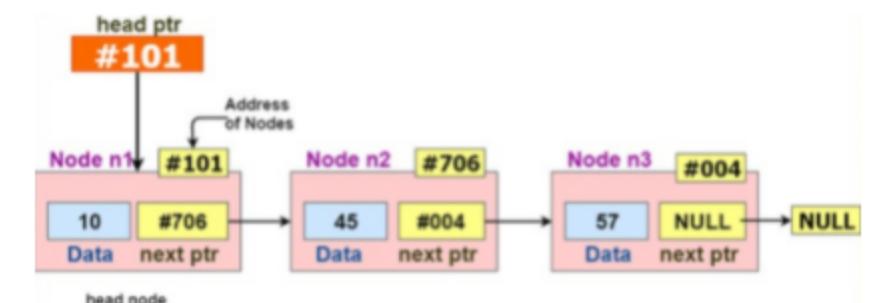
Question 5

Complete

Mark 1 out of 1

Flag question

Predict the code below to allocate the memory for the above structure.



## Question 5

Complete

Mark 1 out of 1

Flag question

Predict the code below to allocate the memory for the above structure.

(1 Mark-[Ap/C,2])

- A. `ptr=(NODE*)malloc(sizeof(NODE));`
- B. `ptr=(NODE*)malloc(NODE);`
- C. `ptr=(NODE*)malloc(sizeof(NODE));`
- D. `ptr=(NODE*)malloc(sizeof(NODE*));`

## Question 6

Complete

Mark 1 out of 1

Flag question

How many blocks of memory byte will be allocated to the above structure if the data defined as float?

(1 Mark-[U/C,2])

- A. 12 bytes
- B. 2 bytes

(1 Mark-[Ap/C,2])

- A. **ptr=(NODE)malloc(sizeof(NODE));**
- B. ptr=(NODE\*)malloc(NODE);
- C. **ptr=(NODE\*)malloc(sizeof(NODE));**
- D. ptr=(NODE\*)malloc(sizeof(NODE\*));

**Question 6**

Complete

Mark 1 out of 1

Flag question

How many blocks of memory byte will be allocated to the above structure if the data defined as float?

(1 Mark-[U/C,2])

- A. 12 bytes
- B. 2 bytes
- C. 4 bytes
- D. 8 bytes

**Question 7**

Complete

Mark 1 out of 1

Flag question

Consider "p" and "q" are pointers to a node of the linked list, "head" points to the first node of the list, "next" points to the next node in the list, Find which of the following is true for the following piece of code:

```
for (p=head, q = head; p!=NULL; q = p)
{
    p = p->next;
    free(q);
}
```

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Mark 1 out of 1

[Flag question](#)

- A. 12 bytes
- B. 2 bytes
- C. 4 bytes
- D. 8 bytes

Question 7

Complete

Mark 1 out of 1

[Flag question](#)

Consider "p" and "q" are pointers to a node of the linked list, "head" points to the first node of the list, "next" points to the next node in the list, Find which of the following is true for the following piece of code:

```
for (p=head, q = head; p!=NULL; q = p)
{
    p = p->next;
    free(q);
}
```

(1 Mark-[Ap/C,2])

- A. Does not delete any node
- B. The program will crash
- C. Delete all nodes
- D. Deletes all node except the last node

Question 8

Complete

Mark 1 out of 1

[Flag question](#)

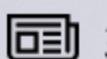
Array implementation of a fixed list A,(i.e, A[50]) is not dynamic, which of the following statements do not support this argument?

(1 Mark-[U/C,2])

- A. space allocation for array is fixed and cannot be changed during run-time
- B. user unable to give the input for stack operations



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D. Deletes all node except the last node

**Question 8**

Complete

Mark 1 out of 1

Flag question

Array implementation of a fixed list A,(i.e, A[50]) is not dynamic, which of the following statements do not support this argument?

(1 Mark-[U/C,2])

- A. space allocation for array is fixed and cannot be changed during run-time
- B. user unable to give the input for stack operations
- C. Improper Compilation execution
- D. a runtime exception halts execution

**Question 9**

Complete

Mark 0 out of 2

Flag question

Analyse the given code below and find the suitable option.

```
newNode = (struct node *)malloc(sizeof(struct node));
printf("\nEnter data of node %d : ", i);
scanf("%d", &data);
newNode->data = data;
newNode->prev = last; // Link new node with the previous node
newNode->next = NULL;
last->next = newNode; // Link previous node with the new node
last = newNode;
```

(1 Mark-[An/P,2])

- A. Base Address



100

104

108

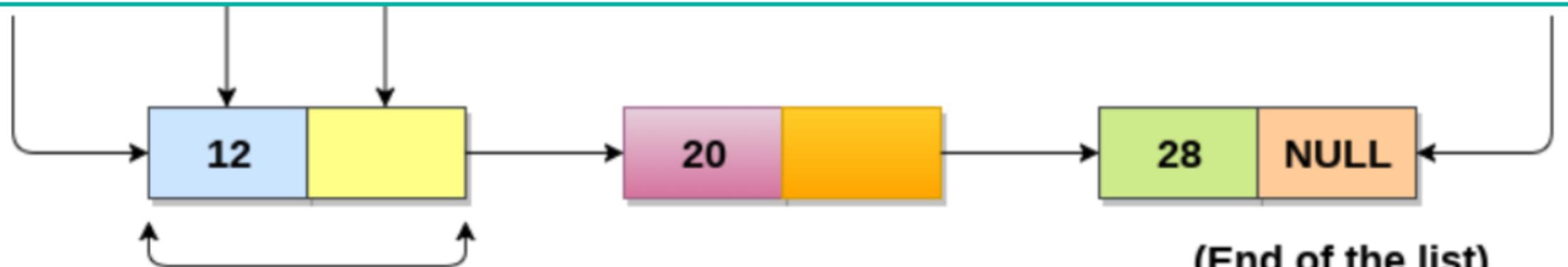
112

116

118

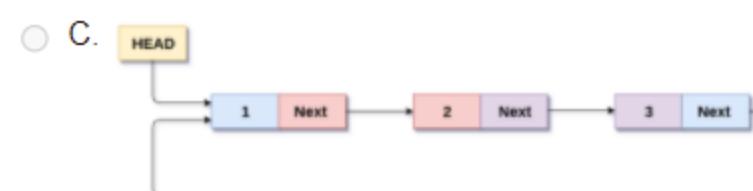
120

124



(End of the list)

Node



D.



Node

Information

Flag question

Consider the Marks secured by the student in the Data Structure Formative Assessment from test 0 to test 9 is given as shown in table 1.1.

| Test  | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|-------|---|---|---|---|---|---|---|---|---|---|
| Marks | 6 | 3 | 8 | 1 | 5 | 7 | 9 | 0 | 2 | 4 |

Table 1.1

Answer the following Questions based on the given scenario.

Total Time Remaining: 0:00:00

Question 1

Correct

Mark 2 out of 2

Flag question

[SO-3] [120]

Find the binary Search Tree for the table as shown in Table 1.1

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

A.

6

✓

**Question 1**

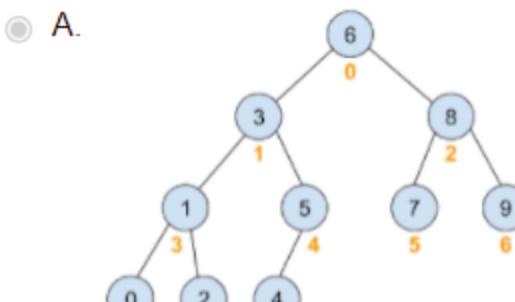
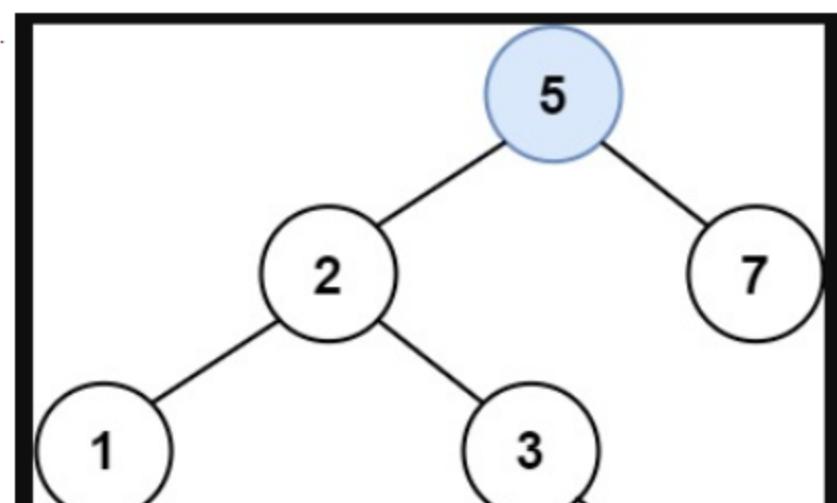
Correct

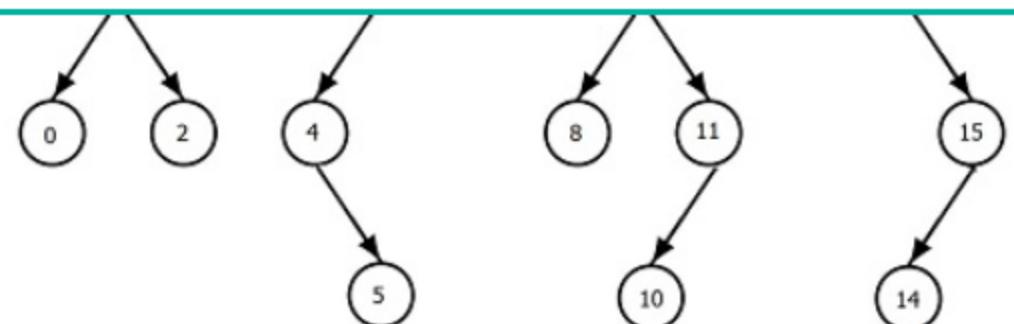
Mark 2 out of 2

 Flag question**[SO-3] [120]**

Find the binary Search Tree for the table as shown in Table 1.1

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00** A. B.



## Question 2

Incorrect

Mark 0 out of 1

Flag question

[SO-3][60]

Consider you want to search for the student Test Mark 5 in the given Table 1.1. Find in which side of the BST you can go for search in a BST so that you can search it efficiently?

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. Left subtree's left side
- B. Root node's left subtree
- C. Right subtree's left side
- D. Root node's right subtree

## Question 3

Correct

Mark 1 out of 1

Flag question

[SO-3][60]

From the given table 1.1 if the student scores the mark 10/10 in his TestNo. 10.

I should add the mark 10 in the right of right subtree.

(1 Mark-[Ap/C,2])

- A. Left subtree's left side
- B. Root node's left subtree
- C. Right subtree's left side
- D. Root node's right subtree

Question 3

Correct

Mark 1 out of 1

Flag question

[SO-3][60]

From the given table 1.1 if the student scores the mark 10/10 in his TestNo. 10.

I should add the mark 10 in the right of right subtree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

Select one:

- True ✓
- False

Question 4

Incorrect

Mark 0 out of 1

[SO-3][60]

Considering the Scenario given in Question 1:



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Select one:

- True ✓  
 False

**Question 4**

Incorrect

Mark 0 out of 1

Flag question

**[SO-3][60]**

Considering the Scenario given in Question 1:

**Assertion:** The insertion operation is performed with  $O(\log n)$  time complexity in BST.**Reason :** The Search operation is performed either on left or right subtree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A. Only the Reason is True
- B. Only the Assertion is True
- C. Both the Assertion and Reason are True
- D. Both the Assertion and Reason are False

✖

## Information

Flag question

**[120]**Consider any Expression; the particular expression has to be compiled by the compiler in our computer machine. The compiler follows the set of following rules :  
If it reads the operand, push it into the stack.

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Information

120

Consider any Expression; the particular expression has to be compiled by the compiler in our computer machine. The compiler follows the set of following rules :

If it reads the operand, push it into the stack.

If operator, then operator becomes the root.

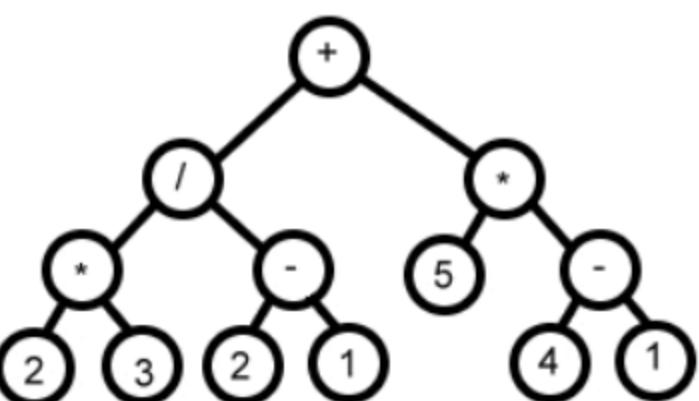
2.1 pop first two elements from the stack

2.2 Top most elements becomes the right child

2.3 Next to top becomes the left child

Form a sub tree and push the sub-tree into the stack.

Based on the rules followed by the compiler for expression evaluation given above answer the following questions.



Total Time Remaining: 0:00:00

**Question 5**

Not answered

Marked out of 1

Flag question

[SO-4][60]

In an Expression Tree construction, if a new operand node is encountered .Identify the operation the compiler has to be performed?

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A. merge all the nodes
- B. create one node pointing to a stack
- C. pop the nodes from the stack
- D. clear stack

**Question 6**

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

Analyze the given Expression Tree in figure 1.1, and identify the leaves of an expression tree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

Type here to search



- A. merge all the nodes
- B. create one node pointing to a stack
- C. pop the nodes from the stack
- D. clear stack

Question 6

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

Analyze the given Expression Tree in figure 1.1, and identify the leaves of an expression tree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. operator
- B. null
- C. operands
- D. expression

Question 7

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

The expression obtained by recursively producing a left expression, followed by an operator, followed by recursively producing a right expression is called?

(1 Mark-[Ap/C,2])



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- B. null
- C. operands
- D. expression

Question 7

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

The expression obtained by recursively producing a left expression, followed by an operator, followed by recursively producing a right expression is called?

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- A. postfix expression
- B. parenthesized expression
- C. prefix expression
- D. infix expression



Question 8

Incorrect

Mark 0 out of 1

Flag question

[SO-4][120]

Analyze the expression tree in figure 1.1 and select the expression.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

- C. prefix expression
- D. infix expression

**Question 8**

Incorrect

Mark 0 out of 1

Flag question

[SO-4][120]

Analyze the expression tree in figure 1.1 and select the expression.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

- A.  $(4-1)*5+(2-1)/3*2$
- B.  $+/*23(2-1)+5*(4-1)$
- C.  $2*3/(2-1)+5*(4-1)$
- D.  $6/(2-1)+$*(5-1)$

**Question 9**

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

State whether Only infix expression can be made into an expression tree.

(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

D.  $6/(2-1)+\$*(5-1)$ 

## Question 9

Correct

Mark 1 out of 1

Flag question

[SO-4][60]

State whether Only infix expression can be made into an expression tree.

(1 Mark-[Ap/C,2])

Total Time Remaining: 0:00:00

Select one:

- 
- True ✓
- 
- 
- False

Finish review



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18CS302\_DATASTRUCTURES\_FA10\_20.10.2021

NEXT ACTIVITY

2021-18CS302- DATA STRUCTURES-Feedback -27.10.2021 »

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Question 1

Complete

Mark 1 out of 1

[Flag question](#)**[SO-1] [60]**

Identify the type of the tree data structure utilized to create the database by Central Railway authorities.

(1 Mark-[U/C,2])

**Total Time Remaining: 0:00:00**

Select one:

- A. Red Black Tree
- B. Heap Tree
- C. AVL Tree
- D. B Tree
- E. Splay Tree

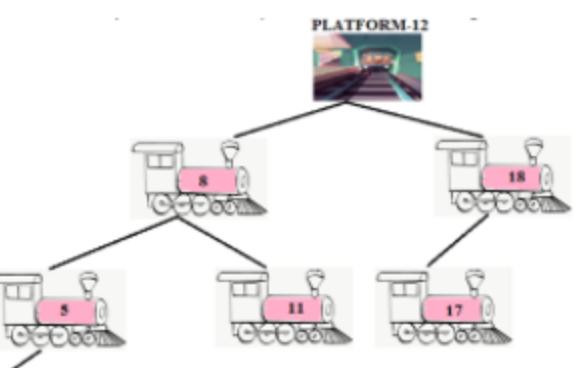
Question 2

Complete

Mark 1 out of 1

[Flag question](#)**[SO-6] [120]**

As the database is refreshed timely to keep it balance, calculate the balancing factor for the Train no 8. (Refer given Fig.1.)



**Question 2**

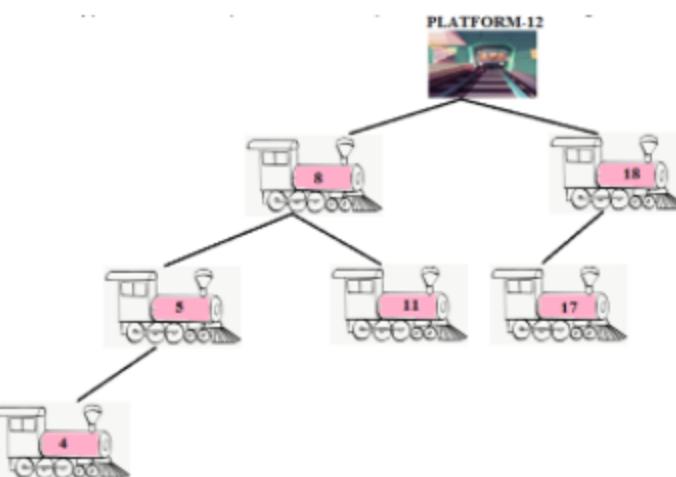
Complete

Mark 1 out of 1

Flag question

**[SO-6] [120]**

As the database is refreshed timely to keep it balance, calculate the balancing factor for the Train no 8. (Refer given Fig.1.)



(1 Mark-[Ap/C,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. -1
- B. 0
- C. 3
- D. 1
- E. 2

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**Question 3**

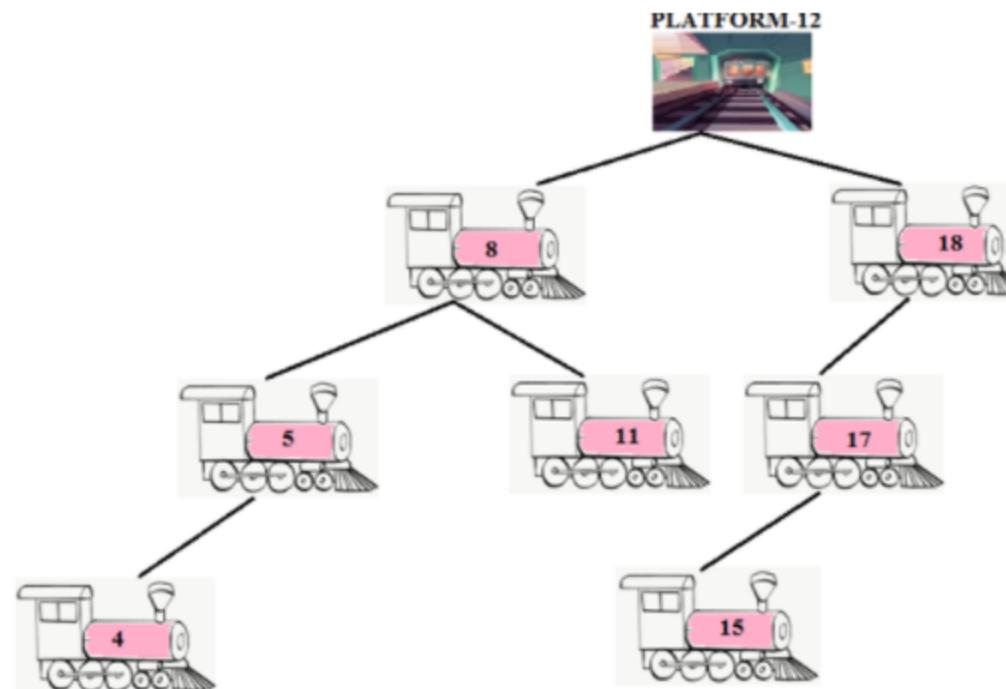
Complete

Mark 0 out of 1

Flag question

**[SO-6] [120]**

- Current view of the Central Station data structure looks like the below figure after inserting a new train number 15. Check whether the data structure is balanced or not. If balanced, what would be the balancing factor of the platform (root node).



(1 Mark-[An/C,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. Unbalanced, -2
- B. Balanced, 0



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 False**Question 5**

Complete

Mark 0 out of 1

Flag question

**[SO-6] [60]**

The below subtree of the Central Station data structure is unbalanced. Identify the unbalancing problem if train number 15 is recently inserted.

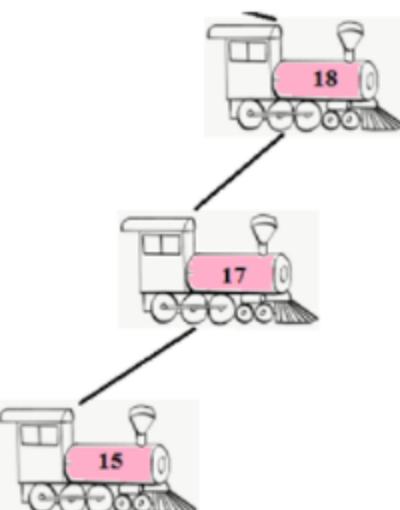


Fig.2 Subtree

(1 Mark - [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. Right-Right
- B. Left-Right
- C. NULL
- D. Left-Left



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**Question 6**

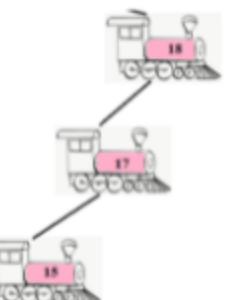
Complete

Mark 3 out of 3

Flag question

**[SO-6] [120]**

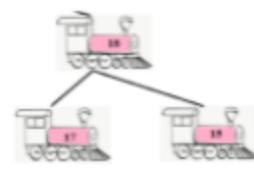
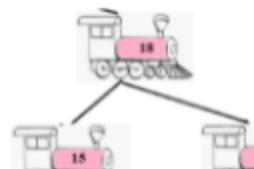
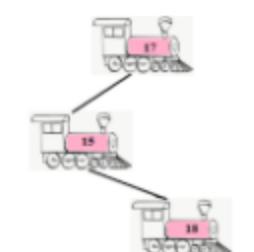
Choose the correct balanced subtree after undergoing rotations on the given figure.



(3 Marks – [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

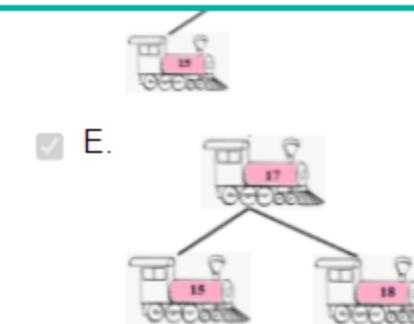
 A. B. C. D.

Type here to search



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Question 7

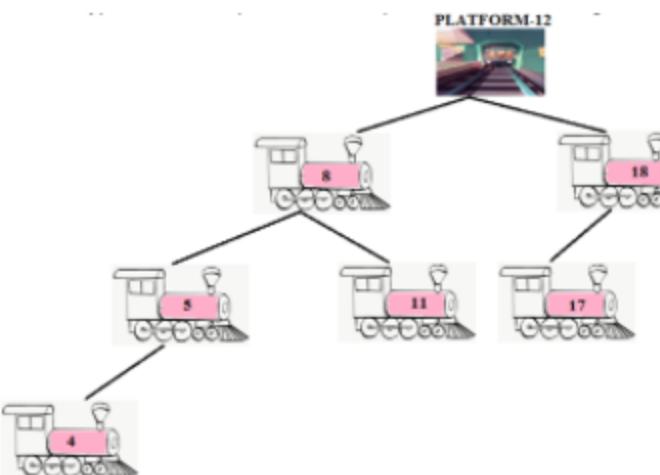
Complete

Mark 2 out of 2

Flag question

[SO-6][160]

The train number next to be scheduled in platform 12 is 8. Inorder approach is utilized for scheduling the trains to the platforms. After scheduling, that particular train number details will be removed from the database. Rearranging operation will be performed after removing a particular train detail. After completely balancing the data structure, next train to be scheduled to the platform is decided. What would be the next train to be scheduled after rearrangement of the train data structure.



(2 Marks – [Ap/P,2])

Total Time Remaining: 0:00:00

Question 7

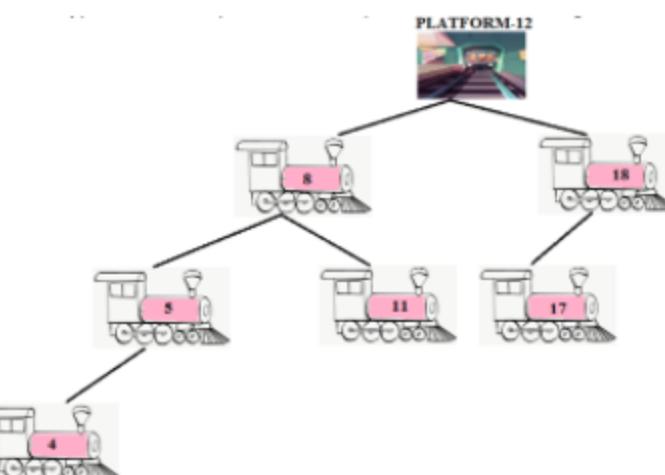
Complete

Mark 2 out of 2

Flag question

**[SO-6][160]**

The train number next to be scheduled in platform 12 is 8. Inorder approach is utilized for scheduling the trains to the platforms. After scheduling, that particular train number details will be removed from the database. Rearranging operation will be performed after removing a particular train detail. After completely balancing the data structure, next train to be scheduled to the platform is decided. What would be the next train to be scheduled after rearrangement of the train data structure.



(2 Marks – [Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

- A. 5
- B. 4
- C. 18
- D. 11

Information  
Flag question

Consider the Employee database which is stored inside the disk structure. The disk structure stores the data inside the disk using the track number and sector number . The B-Tree Representation as shown in the figure 4.1

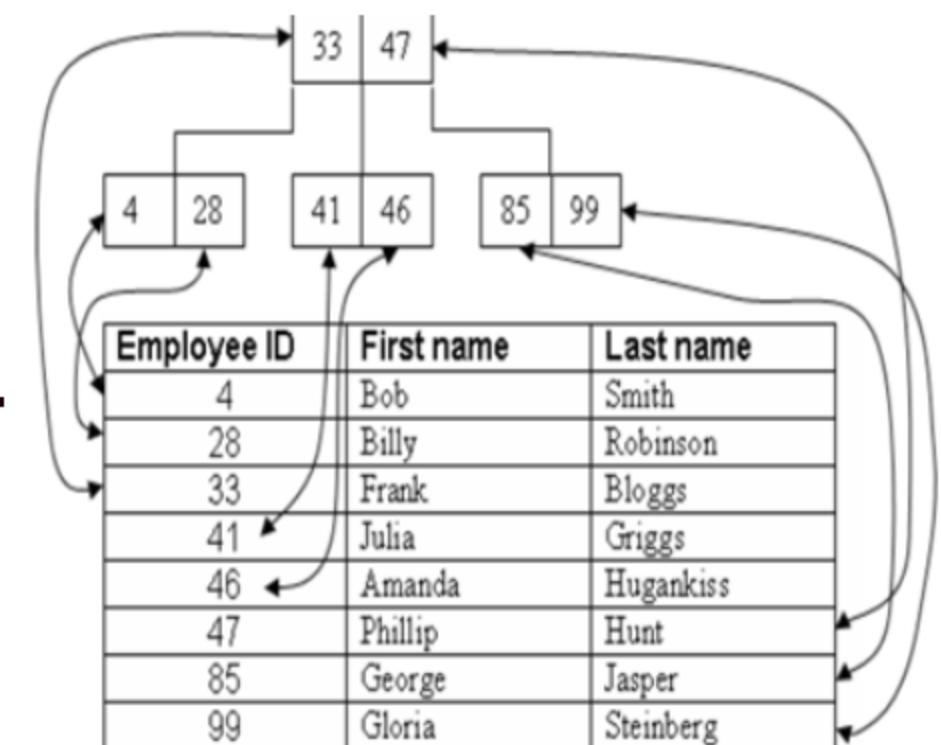
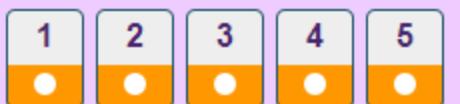


Figure 4.1

Total Time Remaining: 0:00:00

### Questions



### Scenario



### Questions



Show one page at a time

Finish review

**Question 1**

Partially correct

Mark 0 out of 1

Flag question

In the given figure 4.1, the order of the Tree is increased to 5. Then Identify the true statement which best suits from the given options.

[(1 Mark – [An/P,2])]

- a. smaller the order of B-tree, less frequently the split occurs
- b. larger the order of B-tree, more frequently the split occurs
- c. smaller the order of B-tree, more frequently the split occurs
- d. larger the order of B-tree, less frequently the split occurs



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 ▼ ✖

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 ▼ ✓

Total Time Remaining: 0:00:00

**Question 2**

Partially correct



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**Question 2**

Partially correct

Mark 0 out of 1

 Flag question

Find the order of the given B-Tree as shown in the figure 4.1.

[(1 Mark – [An/P,2])]

 a. 2 b. 3 c. 1 d. 4

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 No

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 Yes

Total Time Remaining: 0:00:00



Total Time Remaining: 0:00:00

**Question 3**

Partially correct

Mark 2 out of 2

 Flag question

Find the maximum and minimum number of child nodes for the above-given figure 4.1

[(1 Mark – [An/P,2])]

- a. 3 and 1
- b. 1 and 2
- c. 2 and 2
- d. 4 and 3



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

Choose...

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Choose...

Total Time Remaining: 0:00:00

**Question 4**

Partially correct

Mark 0 out of 1

 Flag question

Say True or False :

All the leaf nodes in the B-Tree must not be present at the same level

[(1 Mark – [U/C,2])]

 a. True b. False ×**1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?** No ×**2. Whether the assessment was relevant to the video and discussion made in the class/discourse forum?** Yes ✓

Total Time Remaining: 0:00:00



**Question 5**

Partially correct

Mark 1 out of 1

 Flag question

In the given scenario, the Employee id in Figure 4.1 is considered as the index to store the record pointing to the B-TREE. Identify in which order the database index must be sorted.

[(1 Mark – [An/C,2])]

- a. Descending order
- b. Randomized order
- c. Ascending order
- d. None of the above



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

Choose...

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Choose...

Total Time Remaining: 0:00:00



Total Time Remaining: 0:00:00

**Question 6**

Partially correct

Mark 0 out of 1

Flag question

The Heap tree of the SIM Card Store as shown in figure 4.2 have "n" customers already, and the Manager wishes to insert n more customers(not necessarily one after another) into this heap. Find the total time required.

- a.  $\theta(n^2)$
- b.  $\theta(n \log n)$
- c.  $\theta(n)$
- d.  $\theta(\log n)$

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

No  ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Yes  ✓

Total Time Remaining: 0:00:00

**Question 7**

Partially correct

Mark 0 out of 1

Flag question

Considering the figure as shown in figure 4.2 Find the array structure given Heap Tree.

[1Mark , An/C]

a.

|   |   |   |   |
|---|---|---|---|
| 3 | 4 | 2 | 1 |
|---|---|---|---|

b.

|   |   |   |   |
|---|---|---|---|
| 4 | 3 | 2 | 1 |
|---|---|---|---|

c.

|   |   |   |   |
|---|---|---|---|
| 1 | 2 | 3 | 4 |
|---|---|---|---|

d.

|   |   |   |   |
|---|---|---|---|
| 2 | 1 | 3 | 4 |
|---|---|---|---|



1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

No  ×

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

Yes  ✓



**Question 8**

Partially correct

Mark 0 out of 1

Flag question

In the sim card store if a new person namely "5" enters who have the highest priority than the other persons who are standing in the queue. Find the heap structure used.

(1 Mark – [An/P,2])

 a. Min heap b. Priority Queue c. Max Heap d. Binary Heap

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

2. Whether the assessment was relevant to the video and discussion made in class/discourse forum?

Total Time Remaining: 0:00:00

Question 9

Not answered

Marked out of 1

 Flag question

Analyze the figure 4.3 given below and find whether it is a complete binary tree.

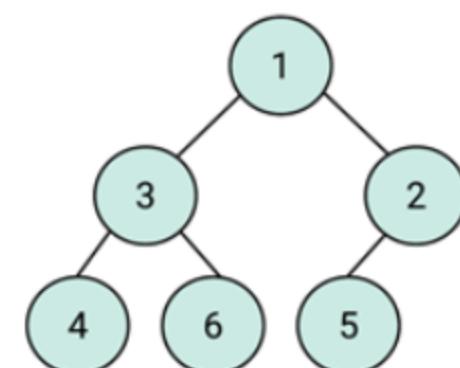


Figure 4.3

- a. True
- b. False

1. Mark yes, if the given question is ambiguous (contains Spelling Mistake, Grammatical Error, Missing Data/Image/Table, Repeated Questions, Remember Type Questions)?

 Choose... ▾

2. Whether the assessment was relevant to the video and discussion made in class / discourse forum?

 Choose... ▾

Total Time Remaining: 0:00:00

Information

Flag question

[120]

Sara and Lara are tourists from United States of America to India. After their long visit to different places in the country, they are currently in Erode district, Sathyamangalam. They planned to visit different places in and around Sathyamangalam. They use to travel with their own four-wheeler. Since they are new to the place, they don't prefer any tourist guides and rely upon Google map to their travel. While travelling in the middle, they may visit nearby petrol bunks and hotels. The places they planned to visit and the travel route is depicted in the below figure 1. Assume that they are currently in BIT.

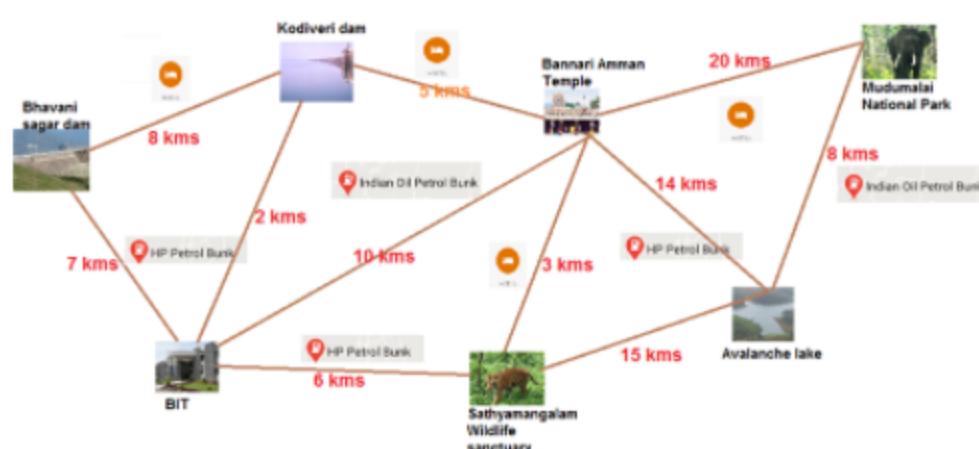


Fig.1 Google map view of the places in and around Sathyamangalam

Answer the following questions using the above scenario

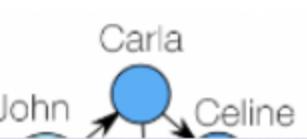
Total Time Remaining: 0:00:00

Information

Flag question

[600] [120]

A Social Network consists of two components: - a list of actors composing the network and a list of relation they have with the users. The representation of a simple module of a social network based on their interaction between the users is depicted below.



Flag question

A Social Network consists of two components: - a list of actors composing the network and a list of relation they have with the users. The representation of a simple module of a social network based on their interaction between the users is depicted below.

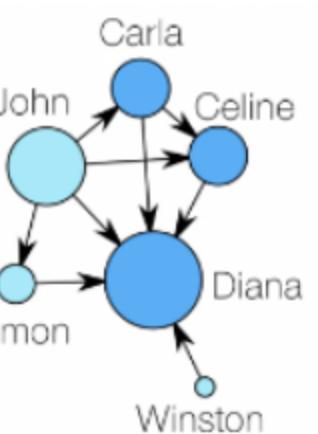


Figure : 01

Based on the above scenario answer the following questions:

Question 1

Complete

Mark 1 out of 1

Flag question

[601] [SO1] [30]

Identify the representation given in Figure:01

(1 Mark – [U/C, 1])

Select one:

- A. Social Network – File System
- B. Social Network - Database
- C. Social Network - Tree
- D. Social Network - Graph

The correct answer is:  
Social Network - Graph



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The correct answer is:

30

**Question 4**

Complete

Mark 1 out of 1

Flag question

**[605] [SO2] [60]**

Which of the following statements is/are TRUE for an undirected graph?

- A: Number of odd degree vertices is even
  - B: Sum of degrees of all vertices is even
- (1 Mark – [U/C,1])

Select one:

- A. A only
- B. Neither A nor B
- C. Both A and B
- D. B only

The correct answer is:

Both A and B

**Question 5**

Complete

Mark 0 out of 1

Flag question

**[606] [SO2] [90]**

Identify the time complexity to calculate the number of edges in a graph which stored its information in the form of an adjacency matrix.

(1 Mark – [An/C,2])

Select one:

- A. O(E<sup>2</sup>)
- B. O(V)
- C. O(E)
- D. O(V<sup>2</sup>)



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- B. O(V)
- C. O(E)
- D. O(V2)

The correct answer is:  
O(V)

**Question 6**

Complete

Mark 0 out of 2

Flag question

**[607] [SO2] [120]**

Derive the adjacency array for the vertex John given in Figure:01

(2 Mark – [Ap/C, 1])

Select one:

 A.

Celine Diana Winston

 B.

Simon Diana Winston

 C.

Carla Celine Diana

 D.

Carla Diana Simon

The correct answer is:

Complete  
Mark 0 out of 2  
Flag question

Derive the adjacency array for the vertex John given in Figure:01  
(2 Mark – [Ap/C, 1])

Select one:

A.

Celine Diana Winston

B.

Simon Diana Winston

C.

Carla Celine Diana

D.

Carla Diana Simon

The correct answer is:

Carla Diana Simon

Question 7

Complete  
Mark 0 out of 2  
Flag question

[608] [S02] [150]

A graph can be represented using incident matrix. In this matrix, rows represent vertices and columns represent edges which are filled with 0,-1, and 1. Where 0 represents that the row edge is not connected with column vertex. 1 represents that the row is connected as the outgoing edge to the column vertex and -1 represents that the row edge is connected as the incoming edge to column vertex.

Derive the equivalent incident matrix for the reduced graph given in Figure:02 below



## Question 7

Complete

Mark 0 out of 2

 Flag question

[608] [SO2] [150]

A graph can be represented using incident matrix. In this matrix, rows represent vertices and columns represent edges which are filled with 0,-1, and 1. Where 0 represents that the row edge is not connected with column vertex. 1 represents that the row is connected as the outgoing edge to the column vertex and -1 represents that the row edge is connected as the incoming edge to column vertex.

Derive the equivalent incident matrix for the reduced graph given in Figure:02 below

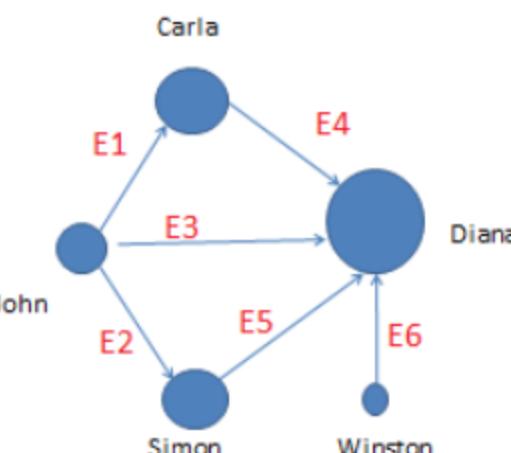


Figure:02

(2 Mark – [Ap/C,2]).

Select one:

 A.

|         | E1 | E2 | E3 | E4 | E5 | E6 |
|---------|----|----|----|----|----|----|
| Simon   | 1  | -1 | 1  | 1  | 0  | 1  |
| John    | 0  | 0  | 0  | 1  | 1  | 1  |
| Carla   | -1 | 1  | 1  | 0  | 1  | 1  |
| Diana   | 1  | 1  | -1 | -1 | -1 | -1 |
| Winston | 1  | 1  | 1  | 1  | 1  | 0  |

 B.

|         | E1 | E2 | E3 | E4 | E5 | E6 |
|---------|----|----|----|----|----|----|
| Simon   | 0  | 1  | 0  | 0  | -1 | 0  |
| John    | 1  | 1  | 1  | 0  | 0  | 0  |
| Carla   | 1  | 0  | 0  | -1 | 0  | 0  |
| Diana   | 0  | 0  | -1 | 1  | -1 | 1  |
| Winston | 0  | 0  | 0  | 0  | 0  | -1 |

 C.

E1 E2 E3 E4 E5 E6

B.

E1 E2 E3 E4 E5 E6

Simon

|         |   |   |    |    |    |
|---------|---|---|----|----|----|
| 0       | 1 | 0 | 0  | -1 | 0  |
| John    | 1 | 1 | 1  | 0  | 0  |
| Carla   | 1 | 0 | 0  | -1 | 0  |
| Diana   | 0 | 0 | -1 | 1  | -1 |
| Winston | 0 | 0 | 0  | 0  | -1 |

 C.

E1 E2 E3 E4 E5 E6

Simon

|         |    |   |    |    |    |
|---------|----|---|----|----|----|
| 0       | -1 | 0 | 0  | 1  | 0  |
| John    | 1  | 1 | 1  | 0  | 0  |
| Carla   | -1 | 0 | 0  | 1  | 0  |
| Diana   | 0  | 0 | -1 | -1 | -1 |
| Winston | 0  | 0 | 0  | 0  | 1  |

 D.

E1 E2 E3 E4 E5 E6

Simon

|         |    |   |    |   |   |
|---------|----|---|----|---|---|
| 0       | -1 | 0 | 0  | 0 | 0 |
| John    | 1  | 0 | -1 | 0 | 0 |
| Carla   | -1 | 0 | 0  | 1 | 0 |
| Diana   | 1  | 0 | 0  | 1 | 0 |
| Winston | 0  | 0 | 0  | 0 | 1 |

 E.

The correct answer is:

E1 E2 E3 E4 E5 E6

Simon

|         |    |   |    |    |    |
|---------|----|---|----|----|----|
| 0       | -1 | 0 | 0  | 1  | 0  |
| John    | 1  | 1 | 1  | 0  | 0  |
| Carla   | -1 | 0 | 0  | 1  | 0  |
| Diana   | 0  | 0 | -1 | -1 | -1 |
| Winston | 0  | 0 | 0  | 0  | 1  |

**Question 8**

Complete

Mark 0 out of 1

Flag question

**[603] [SO1] [30]**

The representation given in Figure: 01 is regular. State True or False

(1 Mark – [U/C,1])

Select one:

- 
- True
- 
- 
- False

The correct answer is 'False'.

**Question 9**

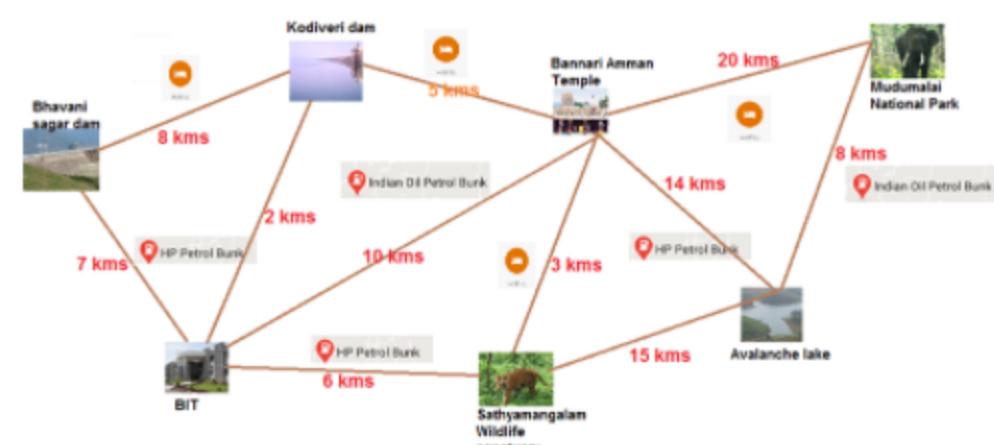
Complete

Mark 1 out of 1

Flag question

**[101] [SO-1] [60]**

From given figure, it is understood that the above Google map view is similar to graph data structure. Identify the type of graph from the Google map view.



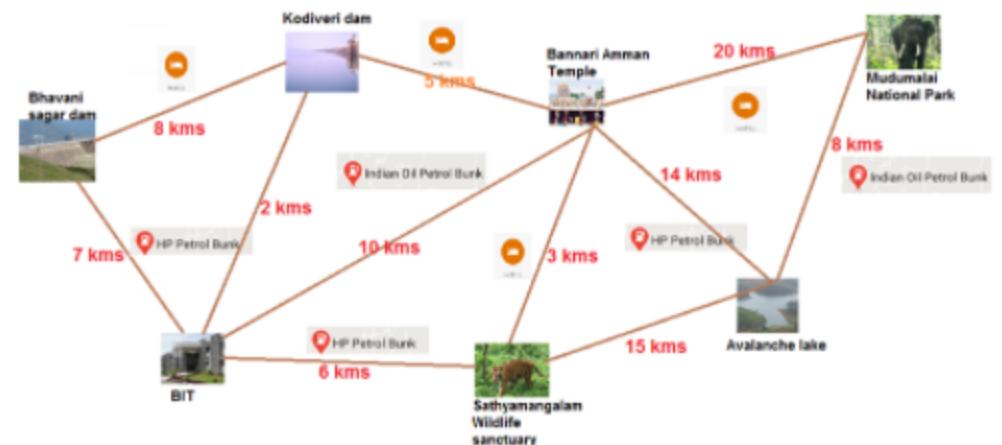
(1 Mark-[An/P,2])

**Total Time Remaining: 0:00:00**

Complete  
Mark 1 out of 1

Flag  
question

From given figure, it is understood that the above Google map view is similar to graph data structure. Identify the type of graph from the Google map view.



(1 Mark-[An/P,2])

Total Time Remaining: 0:00:00

Select one:

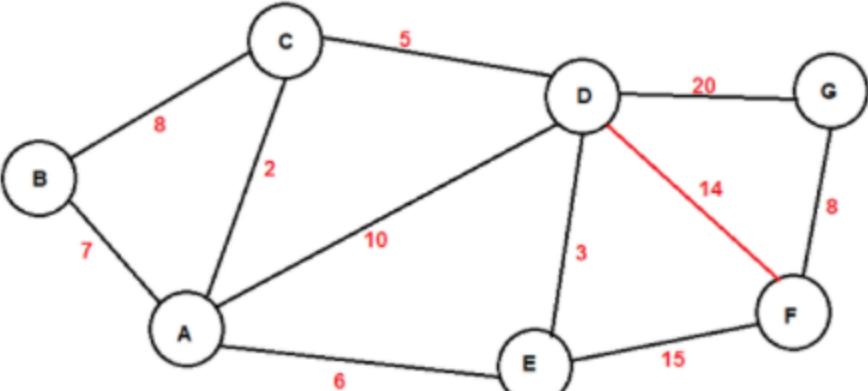
- A. Cyclic graph
- B. Directed graph
- C. Undirected, unweighted graph
- D. Weighted undirected graph
- E. Weighted graph

The correct answer is:

Weighted undirected graph

Complete  
Mark 1 out of 1  
Flag question

- From the given figure, determine the vertices and edges of the Google map view.



(1 Mark-[Ap/P,2])

Total Time Remaining: 0:00:00

Select one or more:

- A.  $V=\{A,B,C,D,E,F\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- B.  $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- C.  $V=\{A,B,C,D,E,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EB,DF,FG,GD\}$
- D.  $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AF,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$
- E.  $V=\{A,B,C,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$

The correct answer is:

 $V=\{A,B,C,D,E,F,G\}$ ,  $E=\{AB,AC,AD,AE,BC,CD,DE,EF,DF,FG,GD\}$

**Question 11**

Not answered

Marked out of 3

Flag question

**[103] [SO-2] [180]**

- The below figure is drawn based on the routes travelled by Sara and Lara. Represent the graph by means of an adjacency matrix for the routes travelled.



- Fig.2 Google map with directions

(3 Marks-[Ap/P,2])

**Total Time Remaining: 0:00:00**

Select one or more:

A.

|   | A | B | C | D  | E | F  | G  |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

B.

|   | A | B | C | D  | E | F  | G  |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

|   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| A | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| B | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| C | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| D | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| F | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| G | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

C.

|   |   |   |   |    |   |    |    |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

D.

|   |   |   |   |    |   |    |    |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

E.

|   |   |   |   |    |   |    |    |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

The correct answer is:

|   |   |   |   |    |   |    |    |
|---|---|---|---|----|---|----|----|
| A | 0 | 0 | 2 | 10 | 6 | 0  | 0  |
| B | 7 | 0 | 0 | 0  | 0 | 0  | 0  |
| C | 0 | 8 | 0 | 5  | 0 | 0  | 0  |
| D | 0 | 0 | 0 | 0  | 3 | 14 | 20 |
| E | 0 | 0 | 0 | 0  | 0 | 15 | 0  |
| F | 0 | 0 | 0 | 0  | 0 | 0  | 8  |
| G | 0 | 0 | 0 | 0  | 0 | 0  | 0  |

Question 12

Not answered

Marked out of 3

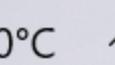
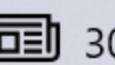
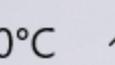
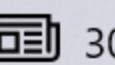
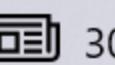
Flag question

[104] [SO-2] [180]

- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.



Type here to search



**Question 12**

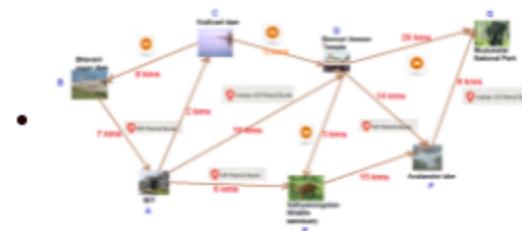
Not answered

Marked out of 3

Flag question

**[104] [SO-2] [180]**

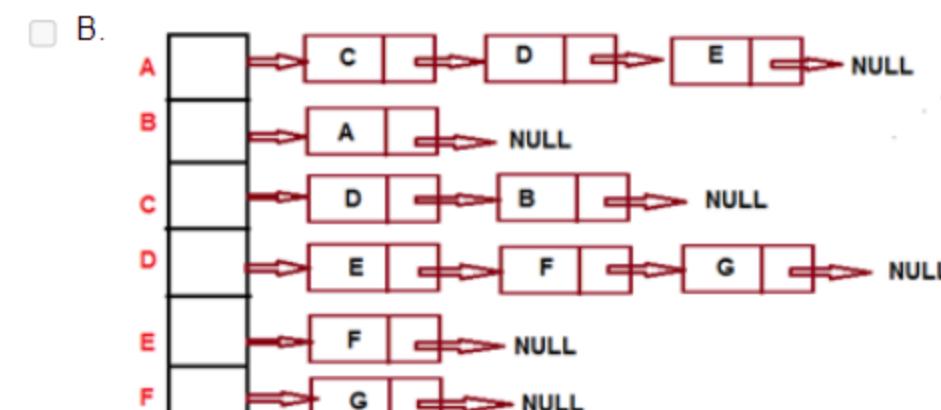
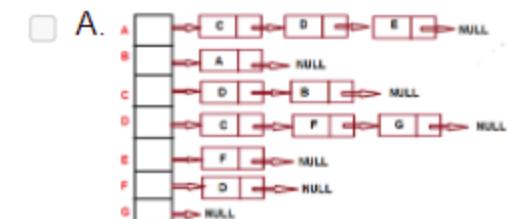
- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.

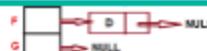


(3 Marks-[Ap/P,2])

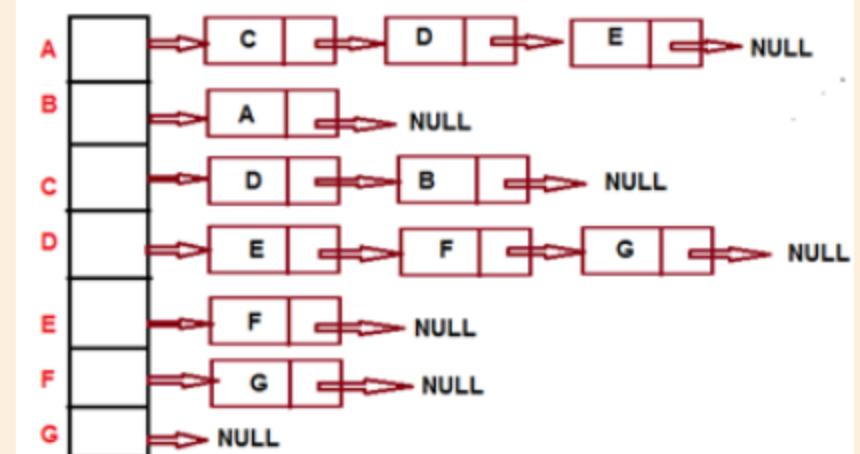
**Total Time Remaining: 0:00:00**

Select one or more:





The correct answer is:

**Question 13**

Not answered

Marked out of 2

Flag question

**[105] [SO-2] [180]**

- From the given graph, determine the indegree and outdegree for BIT and Bannari Amman temple respectively.



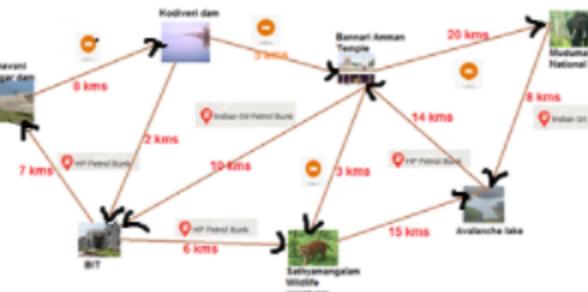
(2 Marks – [An/C,2])

**Total Time Remaining: 0:00:00**

Not answered  
Marked out of 2

Flag question

- From the given graph, determine the indegree and outdegree for BIT and Bannari Amman temple respectively.



(2 Marks – [An/C,2])

Total Time Remaining: 0:00:00

Select one or more:

- A. 2 and 2
- B. 0 and 2
- C. 2 and 3
- D. 3 and 0
- E. 2 and 0

The correct answer is:  
2 and 3

Information  
Flag question

Total Time Remaining: 0:00:00

[120]

Sara and Lara are tourists from United States of America to India. After their long visit to different places in the country, they are currently in Erode district, Sathyamangalam. They planned to visit different places in and around Sathyamangalam. They use to travel with their own four-wheeler. Since they are new to the place, they don't prefer any tourist guides and rely upon Google map to their travel. While travelling in the middle, they may visit nearby petrol bunks and hotels. The places they planned to visit and the travel route is depicted in the below figure 1. Assume that they are currently in BIT.

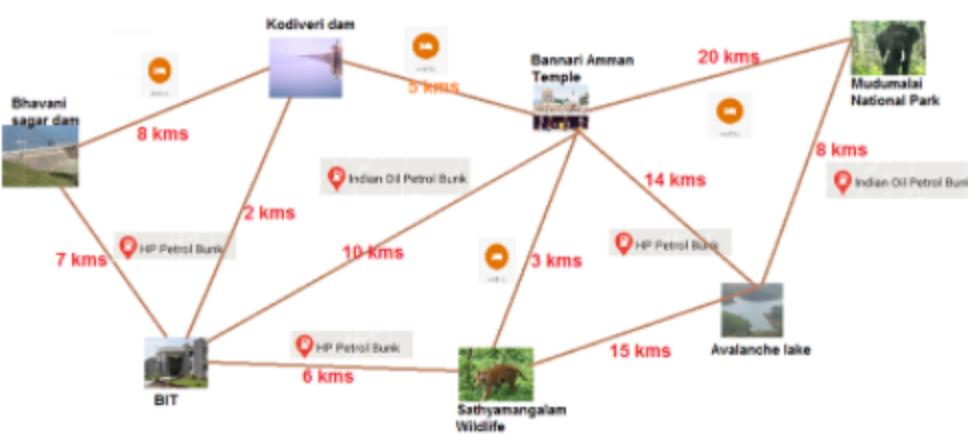


Fig.1 Google map view of the places in and around Sathyamangalam

Answer the following questions using the above scenario

Question 1  
Correct  
Mark 2 out of 2  
Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

Questions  
1 ✓ 2 ✓ 3 ✗ 4 ✓

Show one page at a time

Finish review

Correct

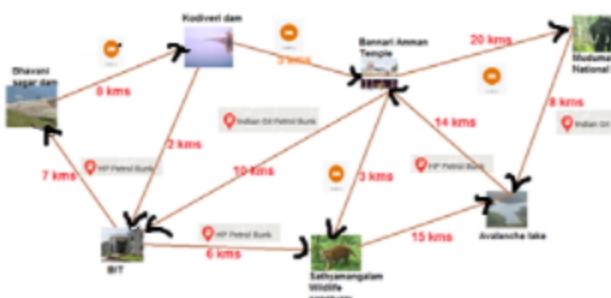
Mark 2 out of 2

Flag question

Total Time Remaining: 0:00:00

[103] [SO-2] [180]

- Identify the data structure used for implementing breadth first traversal (BFT) to keep track of visited places in the given Google map



(2 Marks – [An/C,2])

Select one or more:

- A. Tree ✗
- B. Stack ✗
- C. Array ✗
- D. **Linked list** ✗
- E. Queue ✓

Question 2

Correct

Mark 2 out of 2

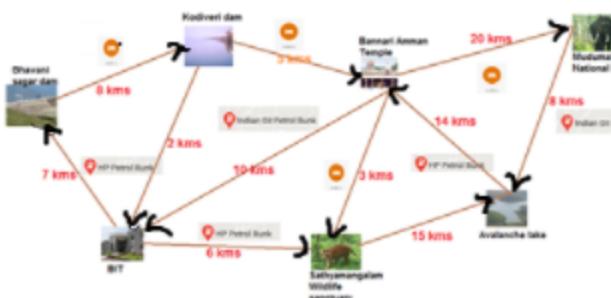
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[104] [SO-2] [180]

- Identify the data structure used for implementing depth first traversal (DFT) to keep track of visited places in the given Google map.



(2 Marks – [An/C,2])

Select one or more:

- A. Array
- B. Queue
- C. Tree
- D. Linked List
- E. Stack



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Incorrect  
Mark 0 out of 3  
[Flag question](#)

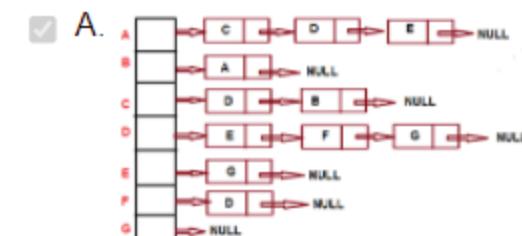
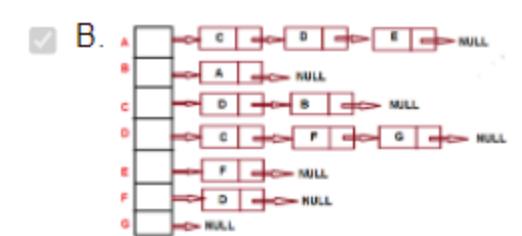
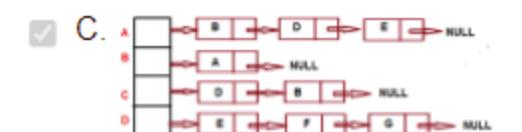
[Click here to view scenario](#)**Total Time Remaining: 0:00:00****[102] [SO-2] [180]**

- Represent the below graph by means of an adjacency list for the routes travelled by Sara and Lara.



(3 Marks-[Ap/P,2])

Select one or more:

- A. 
- B. 
- C. 



Type here to search



30°C

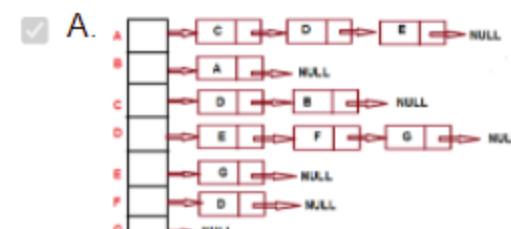


ENG IN

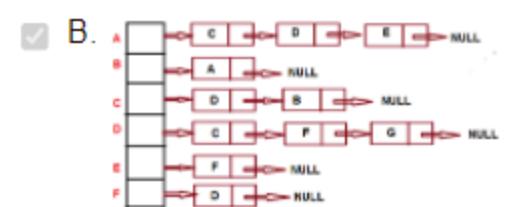
10:56 AM  
1/11/2022

(3 Marks-[Ap/P,2])

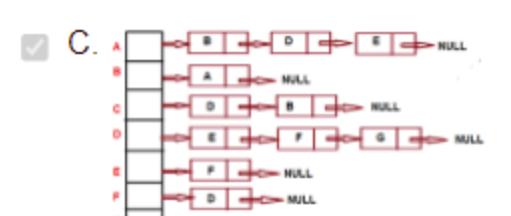
Select one or more:



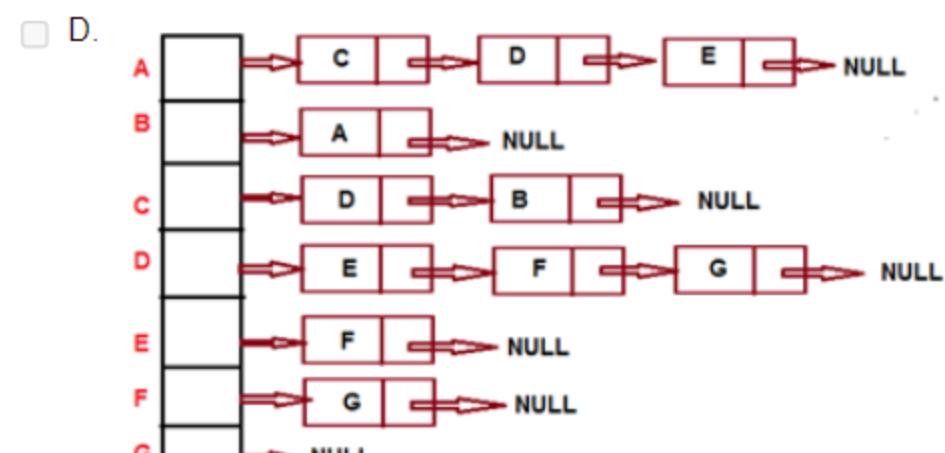
X



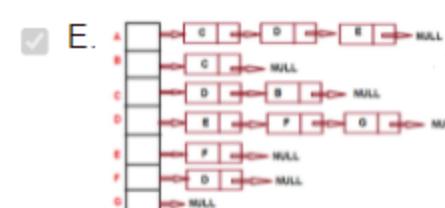
X



X



^



X







**Question 2**

Complete

Mark 3 out of 3

Flag question

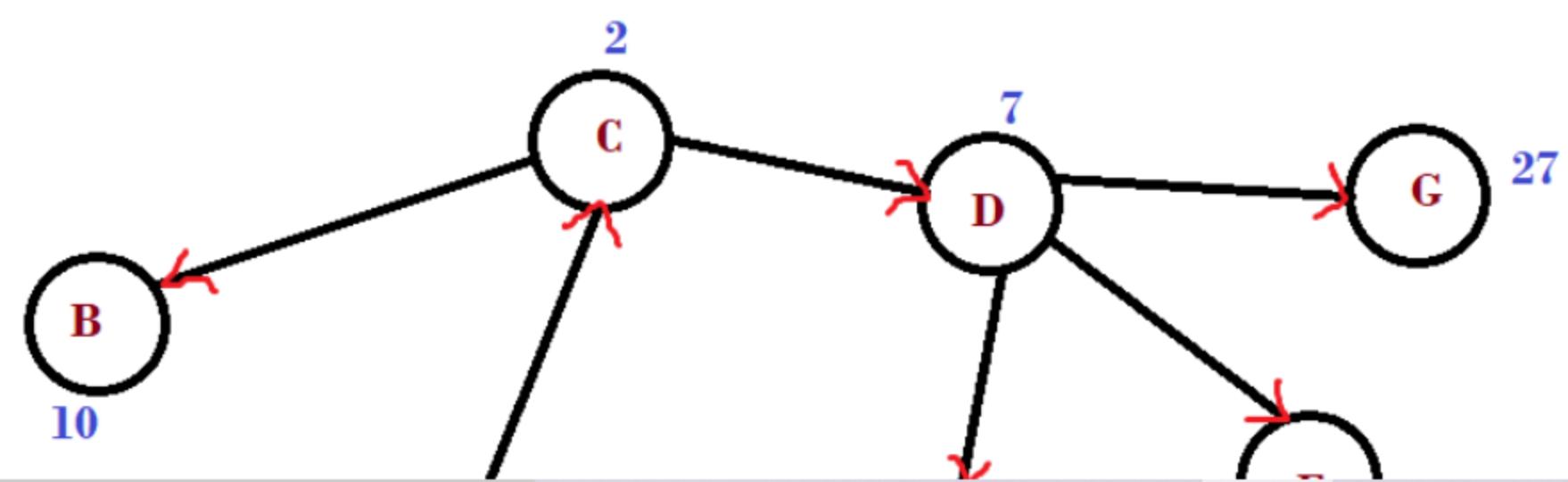
**[106] [SO-2][180]**

- Consider A(BIT) as the source vertex, find the final shortest path for the given graph.



(3 Marks-[An/C,2])

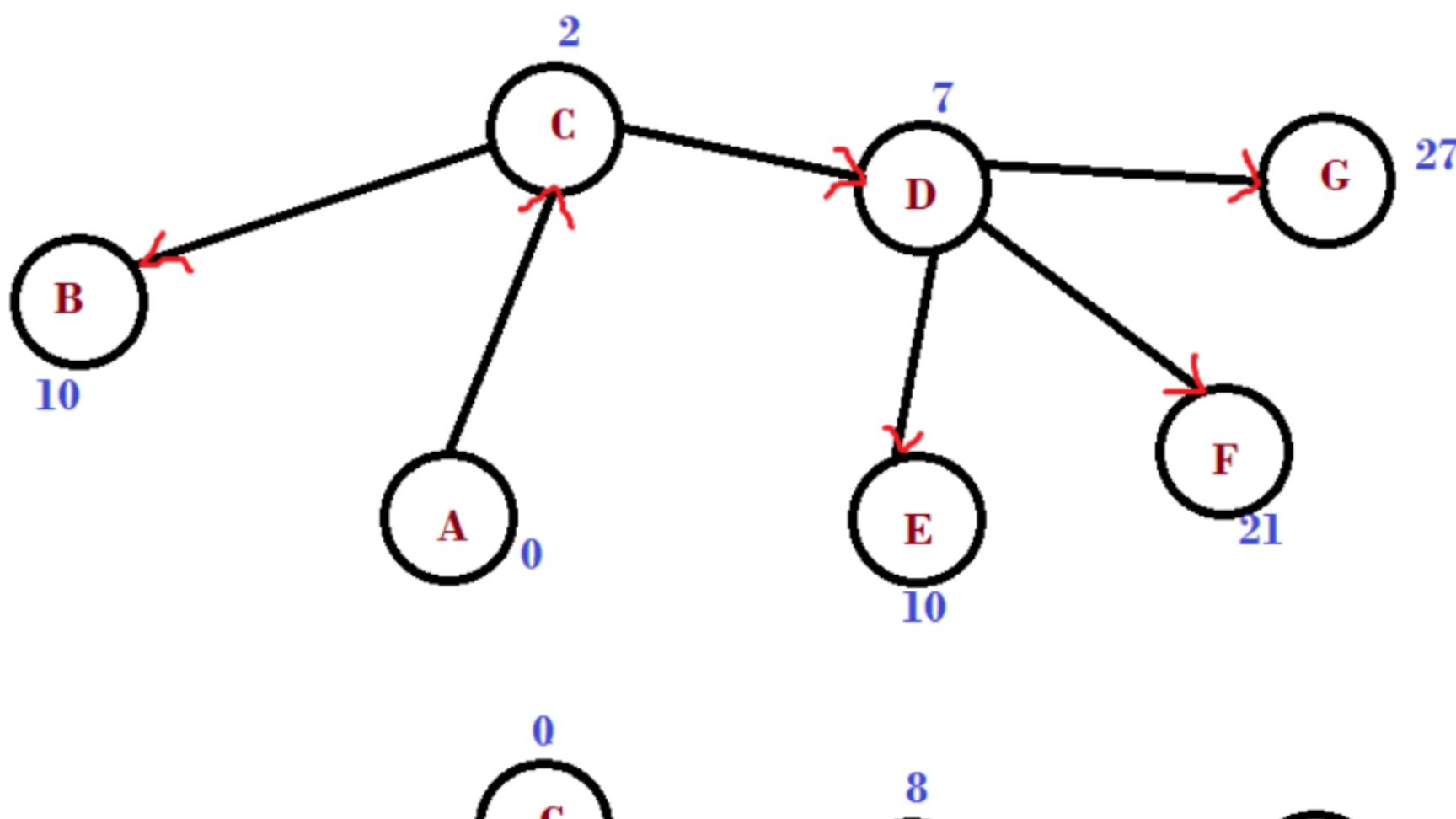
Select one:

 A.



(3 Marks-[An/C,2])

Select one:

 A. B.

Question 3

Complete

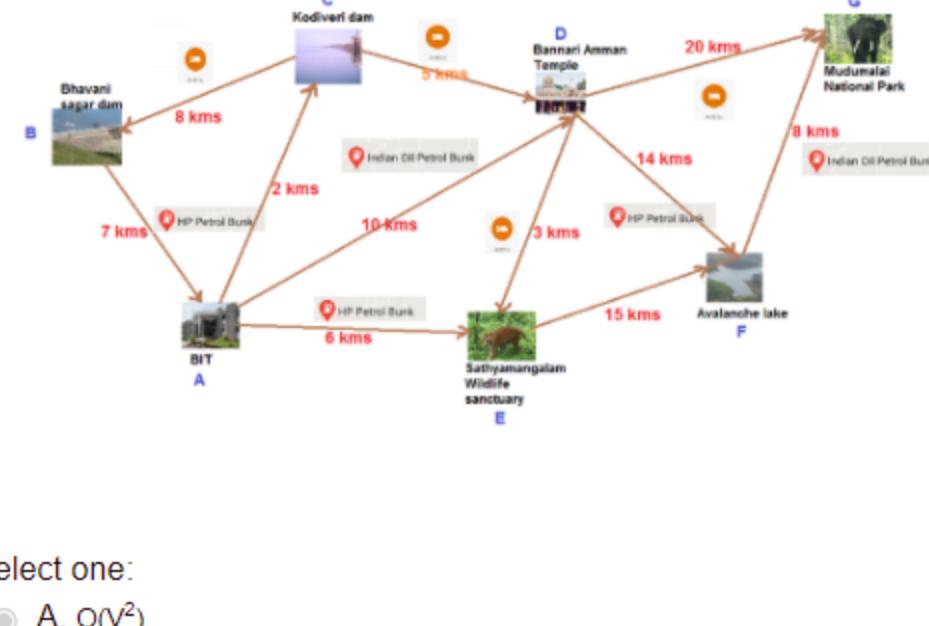
Mark 1 out of 1

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[105] [SO-2][60]

- Consider that the given graph is represented using adjacency matrix. Identify the time complexity for the given graph.



(1 Mark-[An/C,2])

Select one:

- A.  $O(V^2)$
- B.  $O(E \log V)$
- C.  $O(E^2)$
- D.  $O(E+V)$
- E.  $O(V)$

Question 4

Complete

Mark 1 out of 1

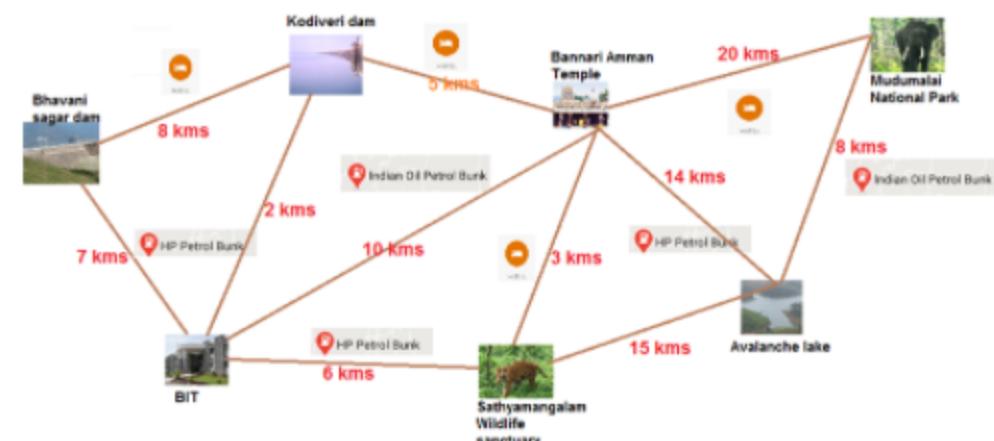
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[102] [SO-3] [60]

The given Google map view is used to solve single source shortest path problem. State True or False.



(1 Mark – [An/C,2])

Select one:

- True  
 False



Question 6

Complete

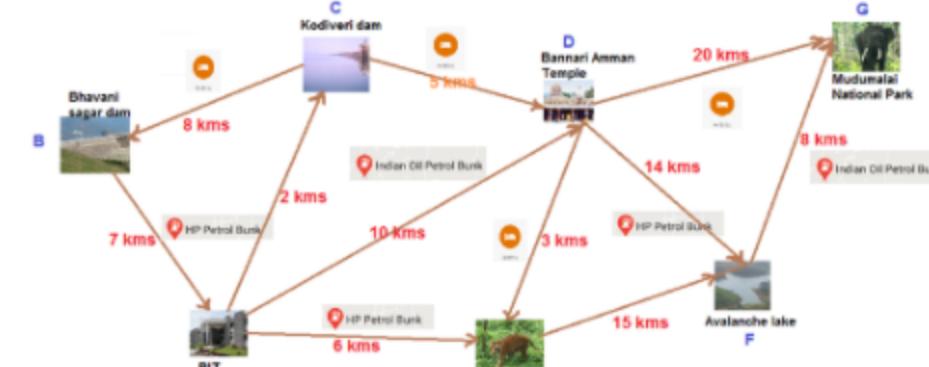
Mark 2 out of 2

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103][SO-2][180]

- Which of the following table corresponds to the initial configuration for finding the optimal path from BIT using Dijkstra's algorithm in the given Google route map?



(2 Marks-[An/C,2])

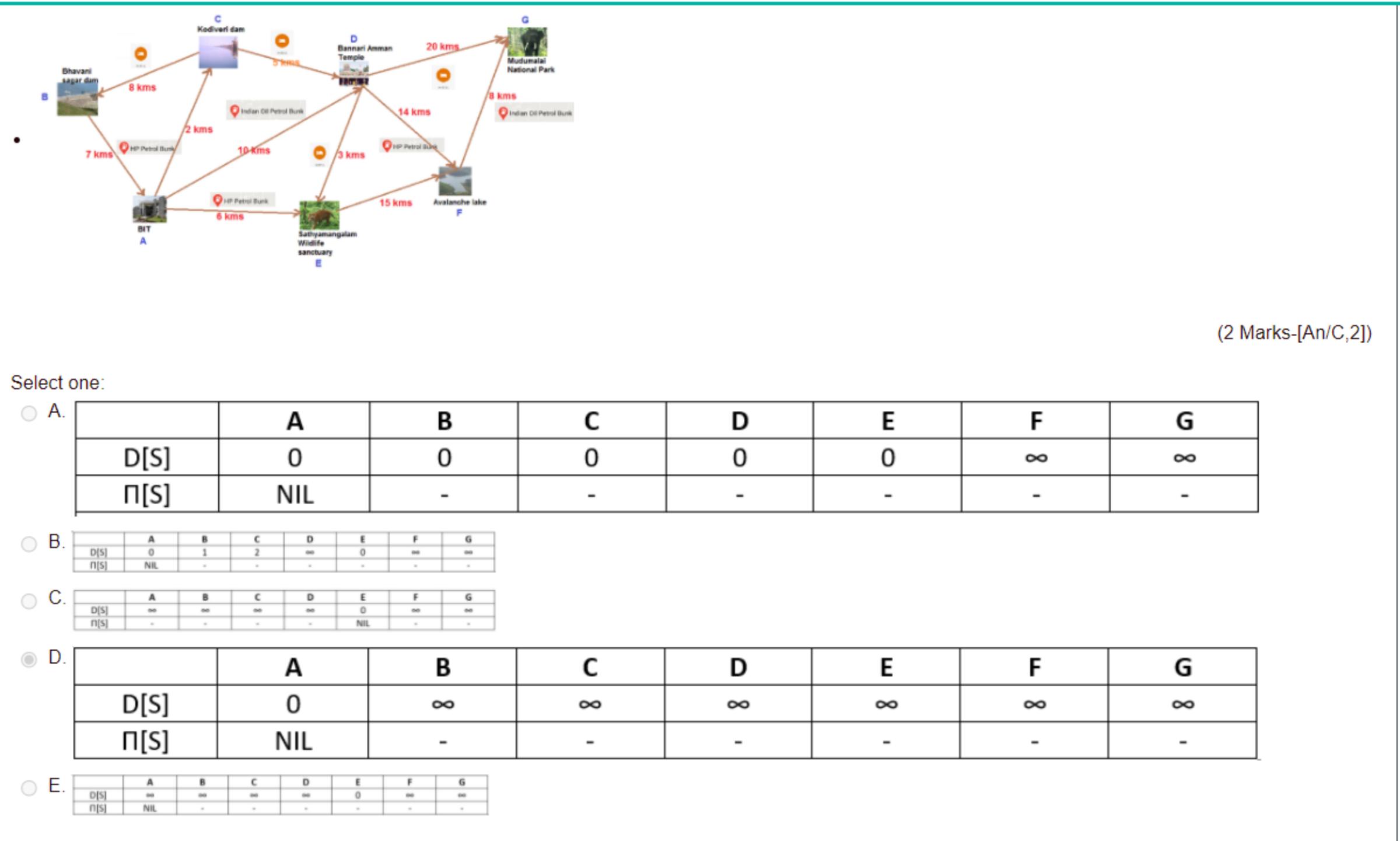
Select one:

 A.

|          | A   | B | C | D | E | F        | G        |
|----------|-----|---|---|---|---|----------|----------|
| D[S]     | 0   | 0 | 0 | 0 | 0 | $\infty$ | $\infty$ |
| $\Pi[S]$ | NIL | - | - | - | - | -        | -        |

 B.

|          | A   | B | C | D        | E | F        | G        |
|----------|-----|---|---|----------|---|----------|----------|
| D[S]     | 0   | 1 | 2 | $\infty$ | 0 | $\infty$ | $\infty$ |
| $\Pi[S]$ | NIL | - | - | -        | - | -        | -        |



Finish review



## Question 1

Complete

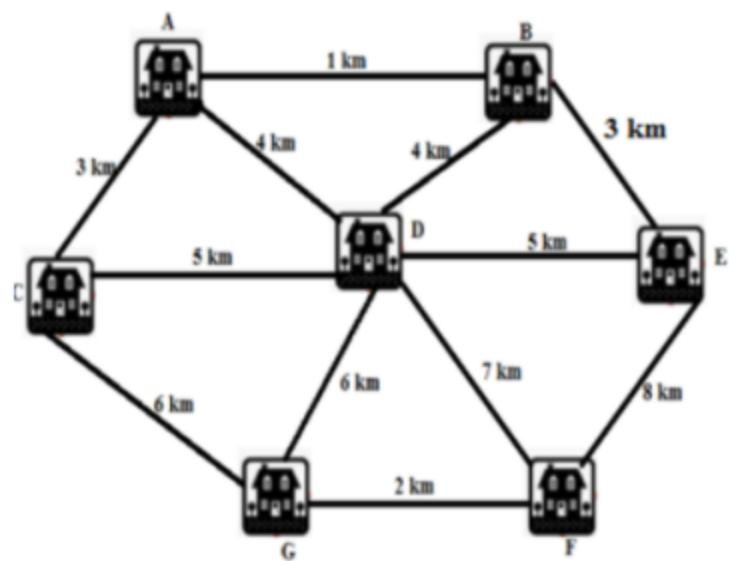
Mark 2 out of 2

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103][SO-2][180]

- The minimal cost obtained for laying cables for all the vilas in the given site map graph using Kruskal's algorithms is



(2 Marks-[An/C,2])

Select one:

- A. 19  
 B. 10  
 C. 5

Question 2

Complete

Mark 1 out of 1

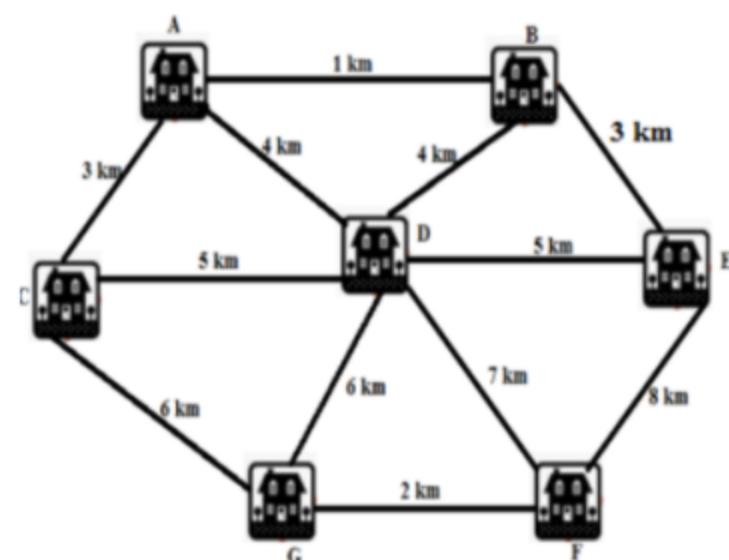
Flag question

[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[101] [SO-1] [60]

The minimum cost route (minimal spanning tree) for laying the cables in the given graph without forming any cycles can be obtained using:



(1 Mark-[U/C,2])

Select one:

- A. Dijkstra's algorithm
- B. Prim's algorithm
- C. Kruskal's algorithm
- D. Bellman Ford algorithm

D. Bellman Ford algorithm

Question 3

Complete

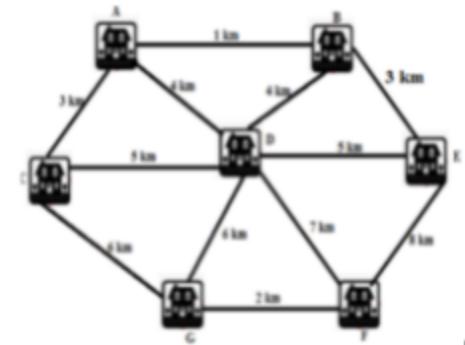
Mark 0 out of 3

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[105] [SO-2][180]

The minimum cost route (minimal spanning tree) in the site map of GG constructions for laying cables is:



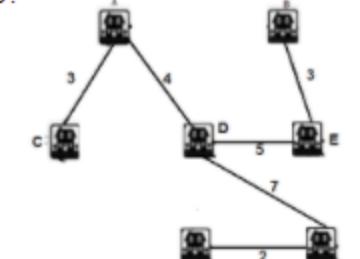
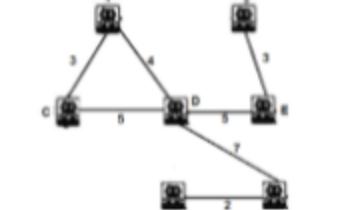
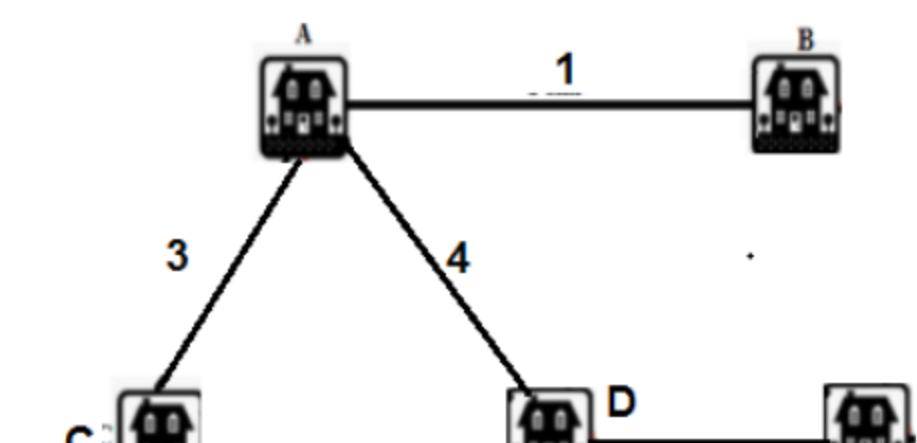
(3 Marks-[An/C,2])

Select one:

 A.

(3 Marks-[An/C,2])

Select one:

 A. B. C. D.

Question 4

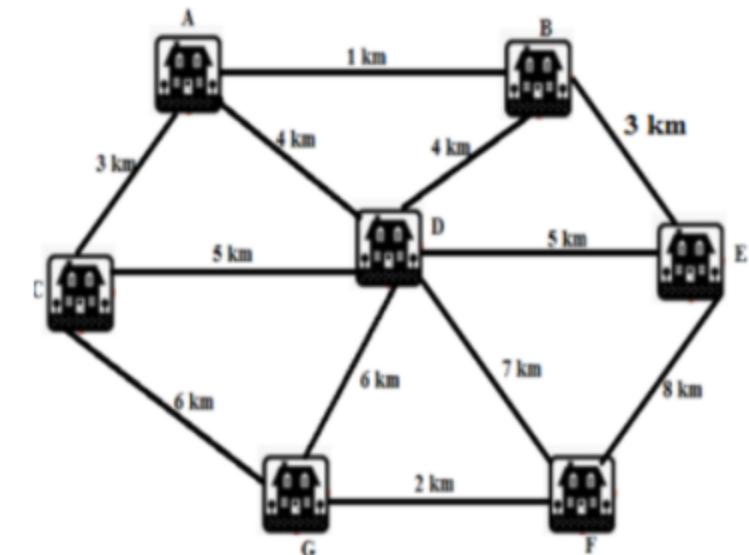
Complete

Mark 0 out of 2

Flag question

[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[104] [SO-2][180]**

- The minimal cost obtained for laying cables for all the villas in the given site map graph using prim's algorithms is:



(2 Marks-[Ap/P,2])

Select one:

- A. 21
- B. 20
- C. 19
- D. 23

Question 5

Complete

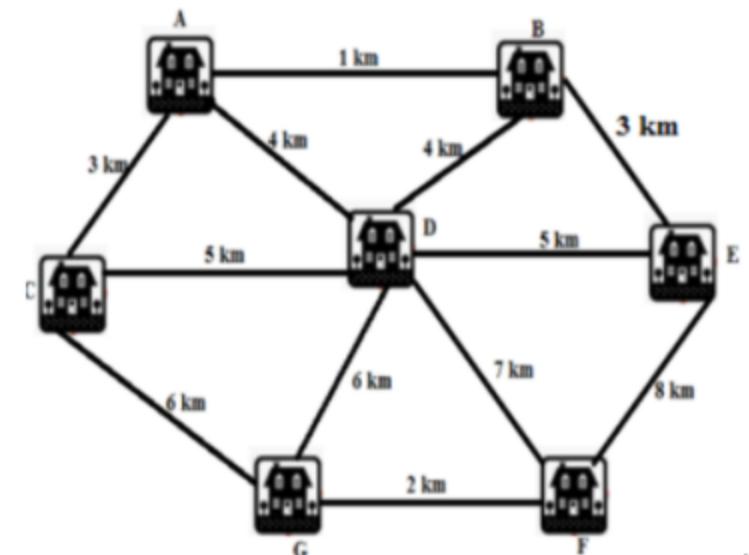
Mark 1 out of 1

[Flag question](#)[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[106] [SO-2][60]

- Constructing minimal spanning tree using route distance factor in the given site map of GG constructions can be considered as an example of:



(1 Mark-[An/C,2])

Select one:

- A. Divide and Conquer technique
- B. Greedy algorithm
- C. Dynamic programming
- D. Backtracking

**Question 6**

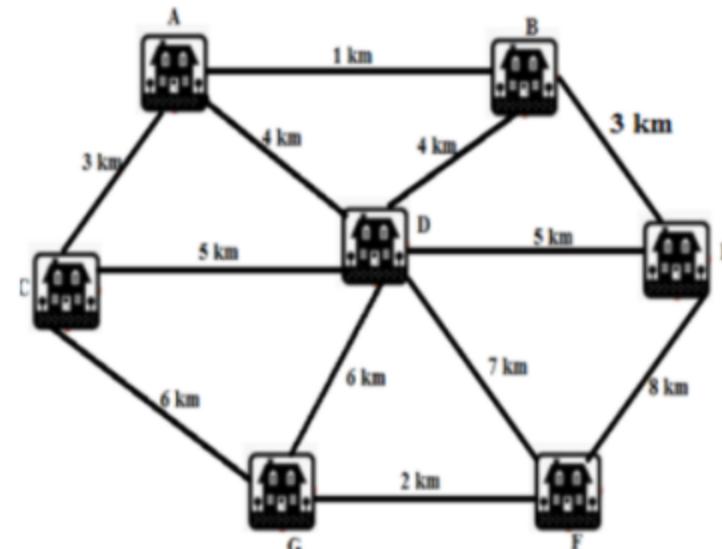
Complete

Mark 1 out of 1

Flag question

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[102] [SO-3] [60]**

If the given cable laying graph is unweighted, or if all edges have the same weight, then any spanning tree can be considered as a minimum spanning tree:



(1 Mark – [An/C,2])

Select one:

 True False

## Total Time Remaining: 0:00:00

[120]

Consider that there are 50 students in a library. All the students are busy with their projects. There is an emergency call for a student named Suresh in the Library. The Librarian have to search the student Suresh and ask him to go out of the library without disturbing the other students. The below figure 1 provides an illustration about the students seated in the Library.

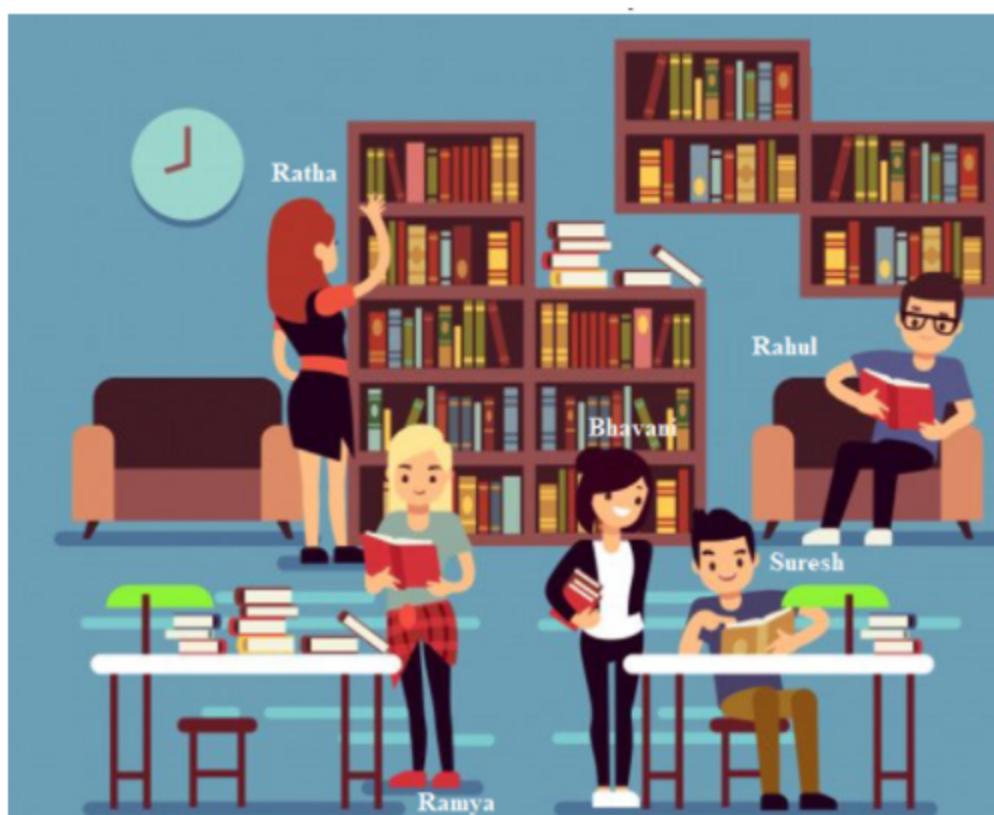
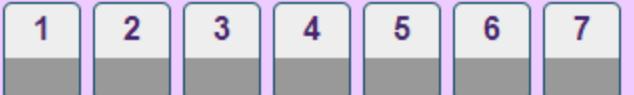


Fig.1 Illustration about the Students in Library

Answer the following questions using the above scenario

## Questions



Show one page at a time

Finish review

Question 1

Complete

Mark 0 out of 1

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Total Time Remaining: 0:00:00

[105] [SO-2] 60

- If the students name list starts with letter 'S', then Suresh will be searched in the first time itself. So, this provides the best-case efficiency. If the student Suresh is not present in the library, then librarian cannot find the student Suresh. This yields worst case efficiency of searching Suresh. Identify the best- and worst-case complexity of searching Suresh if students are seated alphabetically.
- 

(1 Mark-[An/C,2])

Select one:

- A.  $O(n)$ ,  $O(n)$
- B.  $O(1)$ ,  $O(n)$
- C.  $O(n)$ ,  $O(1)$
- D.  $O(n^2)$ ,  $O(1)$

Question 2

Complete

Mark 0 out of 2

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Question ↴

Complete

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Total Time Remaining: 0:00:00

[102][SO-2][120]

- From the below options, determine the correct pseudocode for finding the student Suresh in the library.

(2 Marks-[An/C,2])

Select one:

 A. procedure Suresh\_search (list, value)

```
for each item in the list
    if match item != value
        return the item's location
    end if
end for
```

```
• end procedure
```

 B. procedure Suresh\_search (list, value)

```
for each item in the list
    if match item < value
        return the item's location
    end if
end for
```

```
end procedure
```

 C. procedure Suresh\_search (list, value)

```
for each item in the list
```

```
for each item in the list
  if match item != value
    return the item's location
  end if
end for
```

• end procedure

B. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item < value
    return the item's location
  end if
end for
```

end procedure

C. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item > value
    return the item's location
  end if
end for
```

end procedure

D. procedure Suresh\_search (list, value)

```
for each item in the list
  if match item == value
    return the item's location
  end if
end for
```

end procedure

end procedure

**Question 3**

Complete

Mark 1 out of 1

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[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

[103] [SO-2] 60

- Librarian first asked a boy, whether he is Suresh. If the boy is Suresh, then the time taken to find Suresh is equal to \_\_\_\_\_
- \_\_\_\_\_

(1 Mark-[An/C,2])

Select one:

- A. O(1)
- B. O()
- C. O(n<sup>2</sup>)
- D. O(2n)

**Question 4**

Complete

Mark 0 out of 1

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- B. O<sup>2</sup>
- C. O(n<sup>2</sup>)
- D. O(2n)

Question 4

Complete

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00

[106] [SO-3] [60]

- Instead of going and asking each student, librarian tries to apply some logic to search Suresh. As the students are seated alphabetically, librarian tries to find the middle student. If the middle-named student is Mathu, librarian then continues to find middle student starting with Mathu, leaving the students seated before Mathu. Identify the searching logic used by librarian to find Suresh.

(1 Mark-[An/C,2])

Select one:

- A. Interpolation search
- B. Binary search
- C. Jump search
- D. Linear search

Question 5

Complete

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Select one:

- A. Interpolation search
- B. Binary search
- C. Jump search
- D. Linear search

**Question 5**

Complete

Mark 0 out of 1

Flag question

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[101] [SO-1] [60]**

Using the above scenario, suggest a technique that the librarian would follow to search and find the student Suresh.

(1 Mark-[U/C,2])

Select one:

- A. Jump search
- B. Interpolation search
- C. Exponential search
- D. Linear search

**Question 6**

Complete

Mark 0 out of 2

[Click here to view Scenario](#)**Total Time Remaining: 0:00:00**

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D. Linear Search

**Question 6**

Complete

Mark 0 out of 2

 Flag question[Click here to view Scenario](#)**Total Time Remaining: 0:00:00****[104] [SO-3] [120]**

- Consider that students are seated in the Library according to the alphabetical order. In such case, if Librarian search Suresh, then it is easy to found him compared to unordered seating of the students. Determine the possible code snippet for searching Suresh if students are seated alphabetically.

(2 Marks-[Ap/P,2])

Select one:

**A.**  

```
public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            index = i;
        }
        if(data[i] > key)
        {
            index = i;
            break;
        }
        i++;
    }
    return index;
}
```

**B.**  

```
public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            index = i;
        }
        i++;
    }
    return index;
}
```

B.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            index = i;
        }
        i++;
    }
    return index;
}
```

C.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            index = i;
        }
        if(data[i] > key)
        {
            break;
        }
        i++;
    }
    return index;
}
```

D.

```
    if(i == size)
        return index;
}

public int SureshSearch(int arr[],int key,int size)
{
    int index = -1;
    int i = 0;
    while(size > 0)
    {
        if(data[i] == key)
        {
            break;
        }
        if(data[i] > key)
        {
            break;
        }
        i++;
    }
    return index;
}
```

Question 7

Complete

Mark 2 out of 2

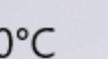
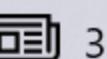
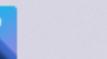
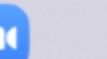
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Question 7

Complete

Mark 2 out of 2

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Total Time Remaining: 0:00:00

[107] [SO-3] [180]

Identify the code snippet for searching Suresh using the logic used by the librarian

(2 Marks-[An/C,2])

Select one:

 A. 

```
public static int iterative(int arr[], int key)
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high + low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid - 1;
        }
        else
        {
            high = mid + 1;
        }
    }
    return -1;
}
```

 B. 

```
public static int iterative(int arr[], int key)
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high + low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```



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```
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```

C. public static int iterative(int arr[], int key)

```
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low == high)
    {
        mid = low + (high - low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid - 1;
        }
        else
        {
            high = mid + 1;
        }
    }
    return -1;
}
```

D. public static int iterative(int arr[], int key)

```
{
    int low = 0;
    int mid = 0;
    int high = arr.length-1;
    while(low <= high)
    {
        mid = low + (high - low)/2;
        if(arr[mid] == key)
        {
            return mid;
        }
        else if(arr[mid] < key)
        {
            low = mid + 1;
        }
        else
        {
            high = mid - 1;
        }
    }
    return -1;
}
```

Information  
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Total Time Remaining: 0:00:00

[120]

Bannari Amman Institute of Technology uses Choice based technique to make the students select the faculty for the subjects on their own. For each course, list of faculty experts will be displayed. Students choose a faculty they wish from the list provided. The number of student's ratio per faculty is not limited. The below list categorizes the number of students selected choice based courses with respect to the faculty. Maximum of 9 courses are offered and the student counts per faculty are displayed. The Management wants to sort the students count according to the faculty using any sorting algorithm.

26 54 93 17 77 31 44 50 20

Answer the following questions using the above scenario

Question 1  
Complete  
Mark 1 out of 1  
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Total Time Remaining: 0:00:00

[102][SO-2] [120]

New heading

1 2 3 4 5 6 7 8

Show one page at a time

Finish review

Question 1

Complete

Mark 1 out of 1

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Total Time Remaining: 0:00:00

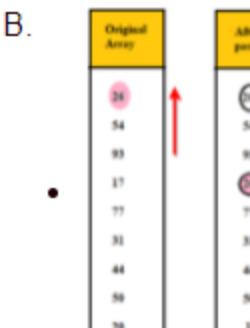
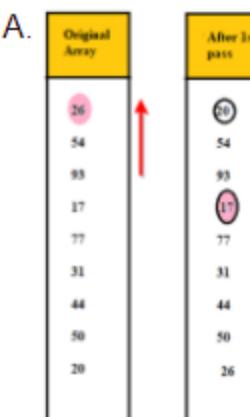
[102][SO-2] [120]

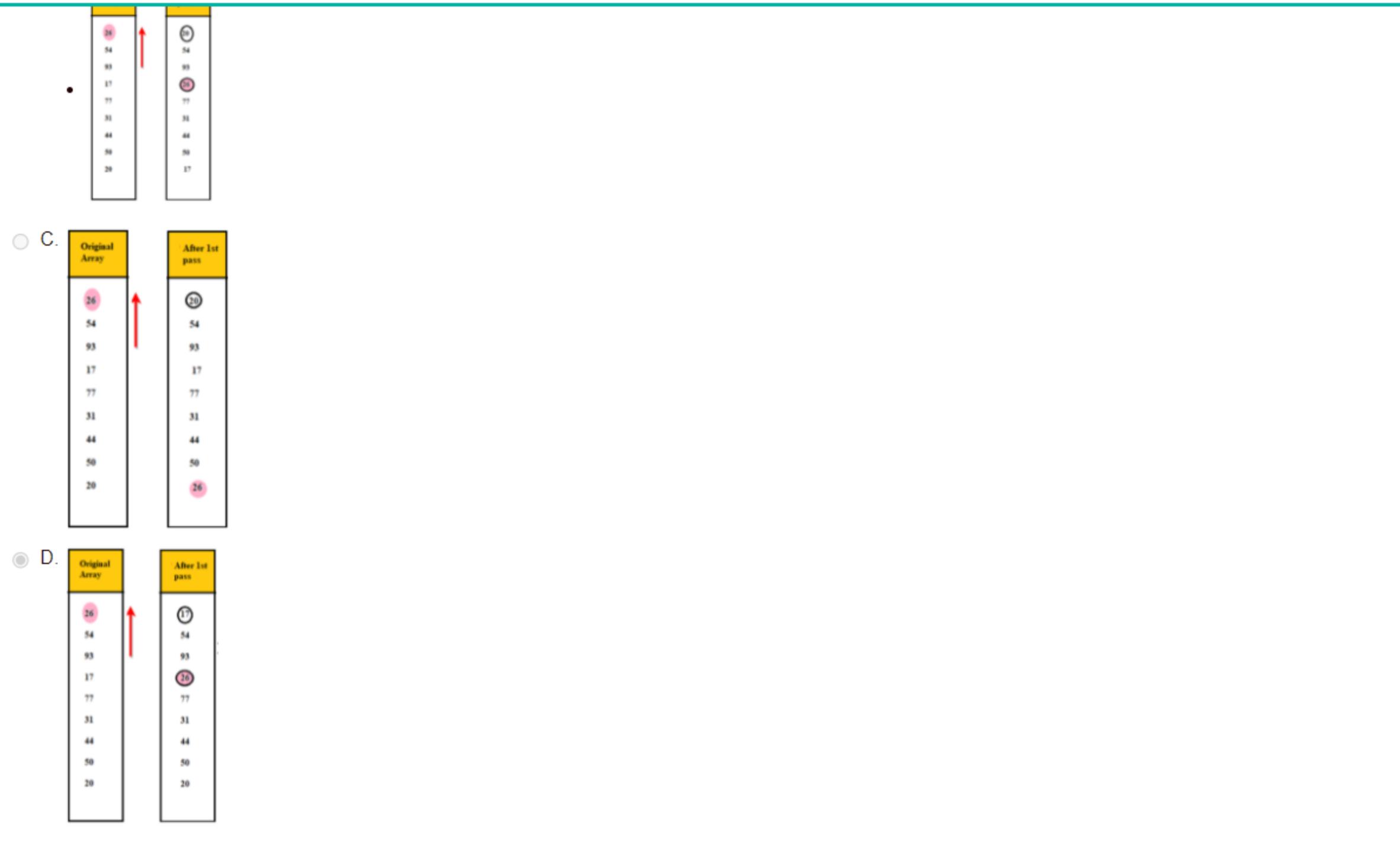
- From the below options, choose the result obtained after first iteration for the below students count using selection sort.

26 54 93 17 77 31 44 50 20

(1 Mark-[An/C,2])

Select one:





Question 2  
Complete

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|    |
|----|
| 17 |
| ?? |
| 31 |
| 44 |
| 50 |
| 20 |

|    |
|----|
| 26 |
| ?? |
| 31 |
| 44 |
| 50 |
| 20 |

Question 2  
Complete  
Mark 0 out of 2  
 Flag question

### Click here to view Scenario

Total Time Remaining: 0:00:00

[108] [SO-3] [180]

- Identify the suitable algorithm for sorting the students count using Bubble sort.

(2 Marks-[An/C,2])

Select one:

A. `begin BubbleSort(list)`  
`for all elements of list`  
`if list[i] = list[i+1]`  
`swap(list[i], list[i+1])`  
`end if`  
`end for`  
`return list`  
`end BubbleSort`



```
        return list

    end BubbleSort

    ○ B. begin BubbleSort(list)

        for all elements of list
            if list[i] > list[i+2]
                swap(list[i], list[i+2])
            end if
        end for

        return list

    end BubbleSort

    ○ C. begin BubbleSort(list)

        for all elements of list
            if list[i] < list[i+1]
                swap(list[i], list[i+1])
            end if
        end for

        return list

    end BubbleSort

    ○ D. begin BubbleSort(list)

        for all elements of list
            if list[i] > list[i+1]
                swap(list[i], list[i+1])
            end if
        end for

        return list

    end BubbleSort
```

Question 3

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

[106] [SO-2] [60]

- If the management wants to extract the detail of the faculty who is chosen by maximum number of students, \_\_\_\_\_ sorting technique is preferable to extract the result at the first iteration itself

(1 Mark-[An/C,2])

Select one:

- A. Selection sort
- B. Quick sort
- C. Merge sort
- D. Bubble sort

Question 4

Complete

Mark 0 out of 2

Flag question

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Total Time Remaining: 0:00:00



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2.i+1 to n-2

3.list[j] &lt; list[min]

 D. 1.1 to n-1

2.i+1 to n

3.list[j] &lt; list[min]

**Question 5**

Complete

Mark 0 out of 1

 Flag question[Click here to view Scenario](#)

Total Time Remaining: 0:00:00

**[103] [SO-2] [60]**

- The number of iterations taken place to completely sort the below students count array using selection sort is \_\_\_\_\_.
- 

26 54 93 17 77 31 44 50 20

(1 Mark-[An/C,2])

Select one:

- A. n
- B. 10
- C. N2
- D. N-1



D. N-1

**Question 6**

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

[107] [SO-3] [60]

Determine the best case and worst case complexity for Selection and Bubble sort respectively.

(1 Mark-[An/C,2])

Select one:

- A.  $O(n^2)$  and  $O(n^2)$
- B.  $O(n^2)$  and  $O(\log n)$
- C.  $O(\frac{n}{2})$  and  $O(n^2)$
- D.  $O(n^2)$  and  $O(\frac{n}{2})$

**Question 7**

Not answered

Marked out of 1

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Total Time Remaining: 0:00:00

Question 7

Not answered

Marked out of 1

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Total Time Remaining: 0:00:00

[104] [SO-3] [60]

- Selection sort is not a stable sorting algorithm. State True or False.

(1 Mark – [An/C,2])

Select one:

- True
- False

Question 8

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

Home

Dashboard

Events

My courses

This course

⚙️ Hide blocks Standard view

Select one:  
 True  
 False

Question 8

Not answered

Marked out of 1

Flag question

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Total Time Remaining: 0:00:00

[101] [SO-1] [60]

If the management wants to extract the detail of the faculty who is chosen by minimum number of students, \_\_\_\_\_ sorting technique is preferable to extract the result at the first iteration itself.

(1 Mark-[U/C,2])

Select one:

- A. Quick sort
- B. Merge sort
- C. Selection sort
- D. Bubble sort

Finish review



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Total Time Remaining: 0:00:00

120

For the T20 world cup, a list of batsmen has to be prepared with their country code and their T20 career runs. The list contains data of **N** batsmen runs. Number of countries may range from 1 to N and each country has its unique code. The list is pretty unorganized. Virat and Maxwell do not like it. They decided to group all the players belonging to same country together. Virat likes arranging stuffs in ascending order and wants the data list to be sorted in ascending order, while Maxwell prefers descending order. As they are good friends, they mutually agreed that country codes should be sorted in ascending order and for each country code, the runs of all the batsmen for that particular country should be sorted in descending order. As the mighty clash between Australia and India is going to start shortly, Virat and Maxwell don't have the time to organize the list. Can you help them to sort the list, the way they want?

Country Codes:

4 3 2 1 0 1 2 1 5 6

Players runs:

14 33 27 10 35 19 42 44

Answer the following questions using the above scenario.

## Questions

1 2 3 4 5 6

Show one page at a time

Finish review

Question 1

Complete

Mark 0 out of 2

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**Question 1**

Complete

Mark 0 out of 2

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Total Time Remaining: 0:00:00

[102][SO 2] [240]

- From the below options, choose the result obtained after first iteration for the below players run details using insertion sort. (Note: Players run count has to be sorted in descending order)
- |    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 14 | 33 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|

(2 Marks-[An/C,2])

Select one:

- A. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 36 | 27 | 19 | 14 | 10 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- B. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 36 | 27 | 10 | 14 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- C. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 33 | 14 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|
- D. 

|    |    |    |    |    |    |    |    |
|----|----|----|----|----|----|----|----|
| 14 | 33 | 27 | 10 | 35 | 19 | 42 | 44 |
|----|----|----|----|----|----|----|----|

**Question 2**

Complete

Mark 1 out of 1

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## Question 2

Complete

Mark 1 out of 1

Flag question

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Total Time Remaining: 0:00:00

[106] [SO-2] [120]

- For the below array, if Shell sort is used to sort the elements the best case complexity obtained is \_\_\_\_\_.
- |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 1 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|

(1 Mark-[An/C,2])

Select one:

- A.  $O(1)$
- B.  $O(n \log n)$
- C.  $O(\frac{n}{\log n})$
- D.  $O(n^2)$

## Question 3

Complete

Mark 3 out of 3

Flag question

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Total Time Remaining: 0:00:00



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Complete  
Mark 3 out of 3  
Flag question

Total Time Remaining: 0:00:00

[103] [SO-2] 240

- The below is the incomplete pseudocode for sorting the country codes using Insertion sort. Complete the pseudocode with suitable logic listed below.

```
Insertion Sort(A,n)
{
    for i ← _____
    {
        value ← a[i]
        hole ← i
        while(hole>0 && _____)
        {
            A[hole] ← A[hole-1]
            hole ← hole-1
        }
        A[hole] ← value
    }
}
```

(3 Marks-[An/C,2])

Select one:

- A. 1..1 to n  
2.A[hole-1]<value
- B. 1..1 to n-1  
2.A[hole-1]>value
- C. 1..1 to n



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- A. 1.1 to n  
2.A[hole-1]<value
- B. 1.1 to n-1  
2.A[hole-1]>value
- C. 1.1 to n  
2.A[hole-1]<value
- D. 1.1 to n-1  
2.A[hole-1]=value

**Question 4**

Not answered

Marked out of 1

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[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[101] [SO-1] [60]**

If the list of country codes is almost sorted or sorted, \_\_\_\_\_ sorting technique provides the best performance result while implementation?

(1 Mark-[U/C,2])

Select one:

- A. Quick sort
- B. Merge sort
- C. Insertion sort
- D. Shell sort



Select one:

- A. Quick sort
- B. Merge sort
- C. Insertion sort
- D. Shell sort

**Question 5**

Complete

Mark 0 out of 1

Flag question

[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[104] [SO-3] [6 0]**

- Shell sort is not an unstable sorting algorithm because this algorithm does not examine the elements lying in between the intervals. State True or False.

**(1 Mark – [An/C,2])**

•

Select one:

- True
- False

[Home](#)[Dashboard](#)[Events](#)[My courses](#)[This course](#)[⚙️ Hide blocks](#)[Standard view](#) False**Question 6**

Complete

Mark 2 out of 2

[Flag question](#)[\*\*Click here to view Scenario\*\*](#)**Total Time Remaining: 0:00:00****[105] [SO-3] [120]**

- Suppose the country codes listed below are sorted using Shell sort and if Shell's original sequence are used as intervals, the elements lying at the interval \_\_\_\_\_ are compared and swapped if they are not in order during the first iteration.
- |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|
| 9 | 8 | 3 | 7 | 5 | 6 | 4 | 1 |
|---|---|---|---|---|---|---|---|

(2 Marks-[Ap/P,2])

Select one:

- A.  $N/4$
- B.  $N^2$
- C.  $N-1$
- D.  $N/2$

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[120]

BIT wants to design a system for storing the records of all the students using the application number of the students. The queries like: inserting an application number of a student during new admission and retrieving corresponding information, searching a student using application number and fetching the information and deleting an application number if a student gets their degree; should be processed efficiently all the time by the system. So, BIT think of using any efficient data structure to design the student's database system.

Answer the following questions using the above scenario.

Question 1

Complete

Mark 0 out of 1

Flag question

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Total Time Remaining: 0:00:00

[105] [SO-3] [60]

Let hash(x) be the slot index computed using hash function. If slot (hash (x) % S) is full, then collision occurs.  $[(\text{hash}(x) + i^*i) \% S]$  formula is used in \_\_\_\_\_ technique to avoid clash.

•

## Questions



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and deleting an application number. If a student gets their degree, should be processed efficiently all the time by the system. So, try think of using any efficient data structure to design the student's database system.

Answer the following questions using the above scenario.

**Question 1**

Complete

Mark 0 out of 1

Flag question

**Click here to view Scenario****Total Time Remaining: 0:00:00****[105] [SO-3] [60]**

Let hash(x) be the slot index computed using hash function. If slot (hash (x) % S) is full, then collision occurs.  $[(\text{hash}(x) + i^*i)\%S]$  formula is used in \_\_\_\_\_ technique to avoid clash.

•

(1 Mark-[U/C,2])

Select one:

- A. Quadratic probing
- B. Linear probing
- C. Log probing
- D. Double Hashing

**Question 2**

Complete

Mark 1 out of 1

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Select one:

- A. Quadratic probing
- B. Linear probing
- C. Log probing
- D. Double Hashing

## Question 2

Complete

Mark 1 out of 1

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Total Time Remaining: 0:00:00

[101] [SO-1] [60]

For the above scenario, suggest a suitable data structure to design the student's database and enabling faster access with respect to student's application number.

(1 Mark-[U/C,2])

Select one:

- A. Linked List
- B. Stack
- C. Hashing
- D. Arrays

## Question 3

Complete

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- B. Stack
- C. Hashing
- D. Arrays

Question 3

Complete

Mark 0 out of 2

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Total Time Remaining: 0:00:00

[107] [SO-2] [120]

- If a new student joins and the application number of the new student is "20". What is the hash value for this new application number? Whether this new application number could be inserted into the hash table? Whether collision or clash occurs during insertion into the hash table?

(2 Marks-[An/C,2])

Select one:

- A. 3, Yes, Yes
- B. 3, No, Yes
- C. 3, Yes, No
- D. 4, No, Yes

Question 4

Complete

Mark 0 out of 2

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Question 4

Complete

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[106] [SO-2] [120]

- Linear probing is a technique used to resolve the problem of collision in hash table. Below is the formula for computing Linear Probing.

$$P = (1 + P) \% (\text{MOD}) \text{Table\_size}$$

- Where  $P$ = Hash ( $P$ ) and  $\text{Table\_size}= 14$
- Hash function is calculated using the below formula
- Hash index = Application number / Total number of application numbers considered
- Using the above information, identify the suitable index position to place the new application number '20' in the below hash table 1.
- 

(2 Marks-[An/C,2])

Select one:

- A. 5
- B. 4
- C. 6
- D. 3



Question 5

Complete

Mark 0 out of 2

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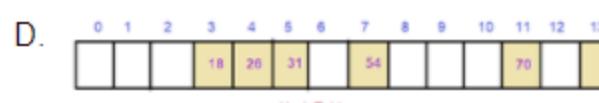
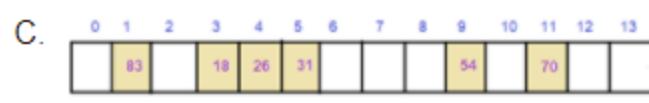
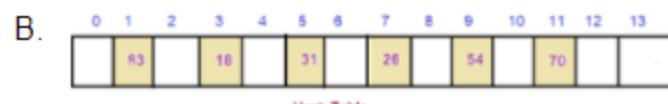
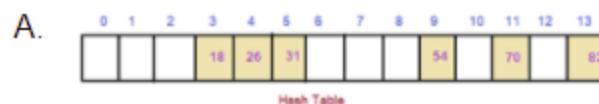
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[103] [SO-2] 240

- A hash function is used to map the item and the index position where item belongs in the hash table. Suppose for the below application numbers of the students (last two digits of the application number is considered), the hash function is calculated by dividing the application number with the total number of application numbers considered and the resultant value is the hash value. Depending upon the hash value, the application number is arranged in the hash table. Determine the resultant hash table obtained from the below options.
- Table 1: Students Application Number
  - 26 • 70 • 18 • 31 • 54 • 83

(2 Marks-[An/C,2])

Select one:



Question 6

Complete

Mark 0 out of 1

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Total Time Remaining: 0:00:00

[104] [SO-3] [6 0]

When an item is deleted from the hash table, the index position is marked as delete for enabling insertion for new element. While searching a particular item from a hash table, if index marked as deleted is encountered searching process breaks and return. State true or False.

(1 Mark – [An/C,2])

•

Select one:

- True
- False

Question 7

Complete

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- True
- False

Question 7

Complete

Mark 1 out of 1

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[102][SO-2][ 60]

If Hashing technique is used, the big application number could be mapped to a small number and that number could be used as \_\_\_\_\_ for the hash table.

(1 Mark-[U/C,2])

Select one:

- A. Hash function
- B. Secondary key
- C. Array
- D. • Index

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