Given code of Test.java file:

```
import java.io.*;
import java.time.LocalDate;
import java.util.Optional;
public class Test {
   public static void main(String[] args) throws IOException,
       ClassNotFoundException {
       Optional<LocalDate> optional =
       Optional.of(LocalDate.of(2018, 12, 1));
       try (ObjectOutputStream oos = new ObjectOutputStream(new
       FileOutputStream(("F:\date.ser")));
            ObjectInputStream ois = new ObjectInputStream(new
        FileInputStream("F:\date.ser")))
       {
           oos.writeObject(optional);
           Optional<?> object = (Optional<?>)ois.readObject();
           System.out.println(object.get());
       }
   }
```

F: is accessible for reading/writing and currently doesn't contain any files/directories.

What will be the result of compiling and executing Test class?

A - 01-12-2018

B - 2018-12-01

C - Compilation error

D - Runtime Exception

Below is the directory structure of "F:/Test" directory:

```
L---Test
       t1.pdf
       t2.pdf
           a.pdf
               b.pdf
                   m.pdf
               c.pdf
               d.pdf
               y.pdf
                   z.pdf
Given code of Test.java file:
import java.io.File;
import java.io.IOException;
public class Test {
   public static void main(String[] args) throws IOException {
       deleteFiles(new File("F:\Test"), ".pdf");
   public static void deleteFiles(File dir, String extension)
        throws IOException {
       File[] list = dir.listFiles();
       if (list != null && list.length > 0) {
           for (File file : list) {
               if (file.isDirectory()) {
                   deleteFiles(file, extension);
               } else if (file.getName().endsWith(extension)) {
                   file.delete();
           }
       }
```

```
}
```

There is full permission to list/create/delete files and directories in F:. What will be the result of compiling and executing Test class?

- A Only t1.pdf and t2.pdf will not get deleted, other pdf files will be successfully deleted
- B t1.pdf, t2.pdf and all the pdf files under 'A' and its sub-directories will be deleted successfully
- C All the pdf files in 'Test' directory and its sub-directories will be deleted successfully
- D Only t1.pdf and t2.pdf will get deleted
- E t1.pdf, t2.pdf and all the pdf files under 'X' and its sub-directories will be deleted successfully

Given code of Test.java file:

F: is accessible for reading/writing and contains 'orig.png' file.

Will above code create exact copy of 'orig.png' file?

A - No

B - Yes

Given code of Test.java file:

What will be the result of compiling and executing Test class?

A - A

B - None of the other options.

C - V

D-J

Given code of Test.java file:

```
import java.io.Console;
import java.util.Optional;

public class Test {
    public static void main(String[] args) {
        Optional<Console> optional =
            Optional.ofNullable(System.console());
        if(optional.isPresent()) {
                 System.out.println(optional.get());
        }
    }
}
```

Which of the following statement are correct regarding above code?

- A Above code may throw NullPointerException.
- B Above code will never throw NullPointerException.
- C Above code will always print some output on to the console.

Imagine below path exists:

What will be the result of compiling and executing Test class?

A - F:\

}

B - NullPointerException is thrown at runtime

C - F:\A

D - Compilation error

Given code of Test.java file:

```
import java.io.*;
class Counter implements Serializable {
   private static int count = 0;
   public Counter() {
       count++;
   public static int getCount() {
       return count;
public class Test {
   public static void main(String[] args) throws IOException,
       ClassNotFoundException {
       Counter ctr = new Counter();
       try( ObjectOutputStream oos = new ObjectOutputStream(
               new FileOutputStream("C:\Counter.dat")) ){
           oos.writeObject(ctr);
       }
       new Counter(); new Counter();
       try( ObjectInputStream ois = new ObjectInputStream(
               new FileInputStream("C:\Counter.dat")) ){
           ctr = (Counter)ois.readObject();
           System.out.println(Counter.getCount());
       }
   }
}
```

There is full permission to list/create/delete files and directories in C:.

What will be the result of compiling and executing Test class?

A - Runtime Exception

B - 1

C - 3

D - 2

Imagine below path exists:

```
F:.
L---A
L---B
```

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) {
        File dir = new File("F:" + File.separator + "A" +
        File.separator + "B");
        System.out.println(/*INSERT*/);
    }
}
```

Which of the following replaces /*INSERT*/, such that on execution 'F:\' is displayed on to the console? Select 2 options.

- A dir.getParentFile().getParentFile()
- B dir.getParent().getParentFile()
- C dir.getParent().getParent()
- D dir.getParentFile().getParent()

Given code of Test.java file:

On execution above code prompts user with following message:

Enter any number between 1 and 10:

Which of the following statement is true if user types 2 and press Enter?

- A Runtime Exception
- B 2 will be printed on to the console.
- C 2 will not be printed on to the console.

Given code of Test.java file:

```
import java.io.IOException;
import java.io.PrintWriter;

public class Test {
    public static void main(String[] args) {
        try(PrintWriter bw = new PrintWriter("F:\test.txt"))
        {
            bw.close();
            bw.write(1);
        } catch(IOException e) {
                System.out.println("IOException");
        }
    }
}
```

F: is accessible for reading/writing purposes.

Which of the following statement is true about above code?

- A Class Test compiles and executes fine and no output is displayed on to the console
- B test.txt file will be successfully created and 1 will be written to it
- C On execution, IOException is printed on to the console
- D Compilation error

Which of the following will correctly accept and print the entered password on to the console?

```
A -
Console console = System.console();
String pwd = console.readPassword("Enter Password: ");
System.out.println(pwd);
В-
Console console = System.console();
char [] pwd = console.readPassword("Enter Password: ");
System.out.println(new String(pwd));
C -
Console console = new Console(System.in);
char [] pwd = console.readPassword("Enter Password: ");
System.out.println(new String(pwd));
D -
Console console = new Console(System.in);
String pwd = console.readPassword("Enter Password: ");
System.out.println(pwd);
```

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) throws IOException {
        BufferedWriter bw = new BufferedWriter(new
        FileWriter("F:\temp.tmp"));
        try(BufferedWriter writer = bw) { //Line 8

        } finally {
            bw.flush(); //Line 11
        }
    }
}
```

What will be the result of compiling and executing Test class?

- A Line 11 causes Runtime exception
- B Line 11 causes Compilation error
- C Line 8 causes Runtime exception
- D Line 8 causes Compilation error

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) {
        try(BufferedWriter bw = new BufferedWriter(new FileWriter("F:\test.txt")))
        {
            bw.close();
            bw.newLine();
        } catch(IOException e) {
                System.out.println("IOException");
        }
    }
}
```

F: is accessible for reading/writing purposes.

Which of the following statement is true about above code?

- A On execution, IOException is printed on to the console
- B Class Test compiles and executes fine and no output is displayed on to the console
- C Compilation error

Given code of Test.java file:

```
import java.io.*;
class Student {
   private String name;
   private int age;
   Student(String name, int age) {
       this.name = name;
       this.age = age;
   public String getName() {
       return name;
   public int getAge() {
       return age;
   public void setName(String name) {
       this.name = name;
   public void setAge(int age) {
       this.age = age;
}
public class Test {
   public static void main(String[] args) throws IOException,
       ClassNotFoundException {
       Student stud = new Student("John", 20);
       try( ObjectOutputStream oos = new ObjectOutputStream(
               new FileOutputStream("C:\Student.dat")) ){
           oos.writeObject(stud);
       }
       try( ObjectInputStream ois = new ObjectInputStream(
               new FileInputStream("C:\Student.dat")) ){
           stud = (Student)ois.readObject();
           System.out.printf("%s : %d", stud.getName(),
       stud.getAge());
       }
   }
}
```

There is full permission to list/create/delete files and directories in C:.

What will be the result of compiling and executing Test class?

A - Runtime Exception

B - John: 20

C - Compilation error

D - null: 0

Given code of Test.java file:

Which of the following statement regarding above code is true?

- A There is a chance of resource leak
- B Above code causes compilation error
- C There is no chance of resource leak

Below is the content of 'F:\message.txt': sdaleteftdeagncedk

message.txt file contains secret message received.

Below code is for decoding the secret message.

What will be the result of compiling and executing Test class?

- A sledge
- B defend
- C None of the other options
- D attack

Given code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        System.out.format("A%nB%nC");
    }
}
```

What will be the result of compiling and executing Test class?

A - A

B - Runtime Exception

C -

В

C

D - ABC

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) throws IOException {
        File f1 = new File("F:\f1.txt");
        FileWriter fw = new FileWriter("F:\dir\f2.txt");
        PrintWriter pw = new PrintWriter("F:\f3.txt");
    }
}
```

F: is accessible for reading/writing and currently doesn't contain any files/directories.

On executing Test class, how many physical files will be created on the disc?

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

Given code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        System.out.printf("%2$d + %1$d", 10, 20);
    }
}
```

What will be the result of compiling and executing Test class?

A - 10 + 20

B - 30

C - 20 + 10

D - None of the other options

F: is accessible for reading/writing. Currently there is no 'err.log' file under

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) throws IOException {
        System.setOut(new PrintStream("F:\err.log"));
        try {
            System.out.println("ONE");
            System.out.println(1 / 0);
        } catch (ArithmeticException e) {
            System.err.println("TWO");
        }
    }
}
```

What will be the result of compiling and executing Test class?

A - err.log will be created but it will not have any texts inside.

B - No err.log file will be created.

C - err.log file will be created and it will contain following texts: ONE

D - err.log file will be created and it will contain following texts: TWO

E - err.log file will be created and it will contain following texts:

ONE

TW0

Given code of Test.java file:

```
import java.io.*;
class Student implements Serializable {
   private transient String name;
   private int age;
   Student(String name, int age) {
       this.name = name;
       this.age = age;
   public String getName() {
       return name;
   public int getAge() {
       return age;
   public void setName(String name) {
       this.name = name;
   public void setAge(int age) {
       this.age = age;
}
public class Test {
   public static void main(String[] args) throws IOException,
       ClassNotFoundException {
       Student stud = new Student("John", 20);
       try( ObjectOutputStream oos = new ObjectOutputStream(
               new FileOutputStream("C:\Student.dat")) ){
           oos.writeObject(stud);
       }
       try( ObjectInputStream ois = new ObjectInputStream(
               new FileInputStream("C:\Student.dat")) ){
           stud = (Student)ois.readObject();
           System.out.printf("%s : %d", stud.getName(),
       stud.getAge());
       }
   }
}
```

There is full permission to list/create/delete files and directories in C:.

What will be the result of compiling and executing Test class?

A - null: 0

B - John: 20

C - Runtime Exception

D - Compilation error

E - null : 20

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) throws IOException {
        Console console = System.console();
        String name = console.readLine("What's your name?");
        System.out.printf("You entered: %s", name);
    }
}
```

Which of the following statement is correct regarding above program, if it is executed from the command line?

- A It waits for 1 min for the user input and then terminates
- B It compiles fine but can cause NullPointerException at runtime
- C It waits indefinitely for the user input after displaying the text: What's your name?
- D It compiles fine and will never cause NullPointerException at runtime
- E It causes compilation failure

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) {
        File dirs = new File("F:\A\B\C");
        System.out.println(dirs.mkdirs());
        File dir = new File("F:\A");
        System.out.println(dir.mkdir());
        System.out.println(dir.delete());
    }
}
```

F: is accessible for reading/writing and currently doesn't contain any files/directories. What will be the result of compiling and executing Test class?

```
A -
false
true
true
В-
true
false
false
C -
false
false
false
D-
true
true
true
E -
true
false
```

true

Given code of Test.java file:

F: is accessible for reading/writing and currently doesn't contain any files/directories.

Will above code create directory 'A' inside F:?

A - No

B - Yes

F: is accessible for reading/writing and currently doesn't contain any directories.

```
F:.

L—A

L—B
```

Which of the code snippet allows to create below directory structure under F:?

```
A-
File file = new File("F:\A\B\C");
file.mkdirs();
B-
File file = new File("F:\A\B\C");
file.createNewDirectories();
C-
File file = new File("F:\A\B\C");
file.mkdir();
D-
File file = new File("F:\A\B\C");
file.createNewDirectory();
```

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) {
        Console console = System.console();
        if(console != null) {
            console.format("%d %<x", 10);
        }
    }
}</pre>
```

What will be the output of compiling and executing Test class from command prompt? javac Test.java java Test

A - 10

B - 10 10

C - 10 a

D - 10 12

E - Runtime Exception

Given code of Test.java file:

```
import java.io.*;
class Person {
   private String name;
   private int age;
   public Person(String name, int age) {
       this.name = name;
       this.age = age;
   public String getName() {
       return name;
   public int getAge() {
       return age;
}
class Student extends Person implements Serializable {
   private String course;
   public Student(String name, int age, String course) {
       super(name, age);
       this.course = course;
   public String getCourse() {
       return course;
}
public class Test {
   public static void main(String[] args) throws IOException,
        ClassNotFoundException {
       Student stud = new Student("John", 20, "Computer Science");
       try (ObjectOutputStream oos = new ObjectOutputStream(new
        FileOutputStream(("F:\stud.ser")));
            ObjectInputStream ois = new ObjectInputStream(new
        FileInputStream("F:\stud.ser")))
           oos.writeObject(stud);
           Student s = (Student) ois.readObject();
           System.out.printf("%s, %d, %s", s.getName(), s.getAge(),
        s.getCourse());
   }
}
```

F: is accessible for reading/writing and currently doesn't contain any files/directories.

What will be the result of compiling and executing Test class?

- A Runtime Exception
- B John, 20, Computer Science
- C null, 0, null
- D null, 0, Computer Science

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) throws IOException {
        File f1 = new File("F:\f1.txt");
        FileWriter fw = new FileWriter("F:\f2.txt");
        PrintWriter pw = new PrintWriter("F:\f3.txt");
    }
}
```

F: is accessible for reading/writing and currently doesn't contain any files/directories.

On executing Test class, how many physical files will be created on the disc?

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

Given code of Test.java file:

```
import java.io.*;

public class Test {
    public static void main(String[] args) {
        Console console = System.console();
        if(console != null) {
            console.format("%d %x", 10);
        }
    }
}
```

What will be the output of compiling and executing Test class from command prompt?

javac Test.java

java Test

A - Runtime Exception

B - 10 a

C - 10

D - 10 10

E - 10 12

Which of the following methods a class must implement/override to implement java.io.Serializable interface?

Select ALL that apply

- A public void serialize(Object);
- B public Object readObject();
- C None of the other options
- D public void writeObject(Object);
- E public Object deserialize();

Given code of Test.java file: import java.io.*; class Person { private String name; private int age; public Person(){} public Person(String name, int age) { this.name = name; this.age = age; public String getName() { return name; public int getAge() { return age; } class Student extends Person implements Serializable { private String course; public Student(String name, int age, String course) { super(name, age); this.course = course; public String getCourse() { return course; } public class Test { public static void main(String[] args) throws IOException, ClassNotFoundException { Student stud = new Student("John", 20, "Computer Science"); try (ObjectOutputStream oos = new ObjectOutputStream(new FileOutputStream(("F:\stud.ser"))); ObjectInputStream ois = new ObjectInputStream(new FileInputStream("F:\stud.ser"))) oos.writeObject(stud); Student s = (Student) ois.readObject(); System.out.printf("%s, %d, %s", s.getName(), s.getAge(), s.getCourse());

```
}
```

F: is accessible for reading/writing and currently doesn't contain any files/directories.

What will be the result of compiling and executing Test class?

A - null, 0, null

B - John, 20, Computer Science

C - Runtime Exception

D - null, 0, Computer Science

Given code of Test.java file:

```
import java.io.*;
class Student implements Serializable {
   private String name;
   private int age;
   Student(String name, int age) {
       this.name = name;
       this.age = age;
   public String getName() {
       return name;
   public int getAge() {
       return age;
   public void setName(String name) {
       this.name = name;
   public void setAge(int age) {
       this.age = age;
}
public class Test {
   public static void main(String[] args) throws IOException,
        ClassNotFoundException {
       Student stud = new Student("John", 20);
       try( ObjectOutputStream oos = new ObjectOutputStream(
               new FileOutputStream("C:\Student.dat")) ){
           oos.writeObject(stud);
       }
       stud.setName("James");
       stud.setAge(21);
       try( ObjectInputStream ois = new ObjectInputStream(
               new FileInputStream("C:\Student.dat")) ){
           stud = (Student)ois.readObject();
           System.out.printf("%s : %d", stud.getName(),
        stud.getAge());
   }
}
```

There is full permission to list/create/delete files and directories in C:.

What will be the result of compiling and executing Test class?

A - John : 20

B - Runtime Exception

C - James : 21

Given code of Test.java file:

```
public class Test {
    public static void main(String[] args) {
        System.out.printf("%2$d + %1$d", 10, 20, 30);
    }
}
```

What will be the result of compiling and executing Test class?

A - 30

B - 10 + 20

C - None of the other options

D - 20 + 10

H - In format string, format specifier are just replaced.

2\$ means 2nd argument, which is 20 and 1\$ means 1st argument, which is 10.

Hence 'System.out.printf("%2d+d", 10, 20);' prints '20 + 10' on to the console.

Having more arguments than the format specifiers is OK, extra arguments are ignored but having less number of arguments than format specifiers throws Missing Format Argument Exception at runtime.

NOTE: System.out.printf(...) is same as System.out.format(...).