

Given

abstract class Test{}

Which of the following statement is legal?

Please select :

- A. new Test();
- B. new Test() {};
- C. Interface x extends Test{}
- D. new Test{};
- E. None of above.

Given

```
1. abstract class Test{  
2.     public abstract void print(String... x);  
3.     public void print(String s){  
4.         System.out.print("print");  
5.     }  
6. }  
7.  
8. public class Whizlab{  
9.     public static void main(String [ ] args){  
10.         Test test = (String... x) -> System.out.print(x[1]);  
11.         test.print("java test");  
12.     }  
13. }
```

What is the result?

Please select :

- A. java
- B. test
- C. print
- D. An Exception.
- E. Compilation fails.

Given

```
1. enum Month{
2.     private int DAYS;
3.
4.     MARCH(31),
5.     APRIL(30),
6.     MAY(31),
7.     JUNE(30),
8.     JULY(31),
9.     AUGUST(31),
10.    SEPTEMBER(30),
11.    OCTOBER(31),
12.    NOVEMBER(30),
13.    DECEMBER(31),
14.    FEBRUARY(28){
15.        public int getDays(int year){
16.            return isLeap(year)?29:28;
17.        }
18.    };
19.    public boolean isLeap(int year){check and returns true if year is a leap year}
20.
21.    private Month(int x){
22.        DAYS = x;
23.    }
24.    public int getDays(int year){
25.        return DAYS;
26.    }
27. }
28. public class Whizlab{
29.     public static void main(String [] args){
30.         System.out.println(Month.FEBRUARY.getDays(2000));
31.     }
32. }
```

What is the result?

Please select :

- A. 28
- B. 29
- C. 30
- D. An Exception.
- E. Compilation fail

Given

```
1. enum Point{  
2.     LOSS(0),  
3.     WIN(2),  
4.     TIE(1);  
5.     private int points;  
6.  
7.     private Point(int x){  
8.         points = x;  
9.     }  
10.  
11.    public int getPoints(){  
12.        return points;  
13.    }  
14. }  
15. public class Whizlab{  
16.     public static void main(String [ ] args){  
17.         System.out.println(Point.WIN.ordinal());  
18.     }  
19. }
```

What is the result?

Please select :

- A. 0
- B. 1
- C. 2
- D. An Exception.
- E. Compilation fails.

Given following interface

```
interface Changer<T>{  
    T change(T t);  
}
```

Which of the following lambda expression can be used for change functional method?

Please select :

- A. Changer<String> fun = String::length;
- B. Changer<String> fun = s -> return s;
- C. Changer<String> fun = ()-> "ABC";
- D. Changer<String> fun = String::toLowerCase;
- E. None of above.

Which of the following access modifier/s can be used with method local inner classes?

Please select :

- A. private.
- B. public.
- C. protected.
- D. Any access modifier.
- E. None of above.

Consider following three statements about static inner classes.

- I. Its variables and methods should be static.
- II. We must create object of outer class to instantiate static inner class.
- III. It can only access static members of enclosing outer class.

Which of the above is/are true?

Please select :

- A. Only I.
- B. Only III.
- C. Only I and II.
- D. All.
- E. None of above.

If we add Enum constants to a tree set what will be the order in which they will be maintained?

Please select :

- A. **Insertion order.**
- B. **Order in which constants are declared.**
- C. **Natural sorting order**
- D. **Won't maintain any order.**

Given

```
1. import java.sql.*;
2.
3. public class Pro2{
4.     public static void main(String []args){
5.         DBConnect dc = new DBConnect();
6.     }
7. }
8. class DBConnect{
9.     private Connection con;
10.    public DBConnect(){
11.        try{
12.            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/whiz","root","");
13.        }catch(Exception e){
14.            System.out.print("exception");
15.        }
16.    }
17. }
```

If the above code executes fine without printing “exception”, which of the followings can be considered as true? (Choose 2)

Please select :

- A. There is a table called whiz.
- B. There is a table called localhost.
- C. There is a database called whiz.
- D. There is no password for the user “root” in the working mysql server instance.

Consider following code fragment.

conc.setAutoCommit(true);

Note: Assume the “conc” is valid reference to a Connection object.

Which of the following is true about above code fragment?

Please select :

- A. This code fragment will disable the “Auto-Commit” mode.
- B. When using this code fragment, each SQL statement is committed automatically when is completed.
- C. When using this code fragment, to make transactions permanent we have to call the “commit()” method.
- D. This is an invalid code fragment.
- E. None of above.

Given

```
1. import java.sql.*;
2. import javax.sql.rowset.*;
3.
4. public class Pro4{
5.     public static void main(String []args)throws Exception{
6.         DBCConnect dc = new DBCConnect();
7.         dc.getPlayer(15);
8.     }
9. }
10.
11. class DBCConnect{
12.     private JdbcRowSet jrs = null;
13.
14.     public void getPlayer(int id)throws Exception{
15.         RowSetFactory myRowSetFactory = RowSetProvider.newFactory();
16.         jrs = myRowSetFactory.createJdbcRowSet();
17.
18.         jrs.setURL("jdbc:mysql://:3306/teams");
19.         jrs.setUsername("root");
20.         jrs.setPassword("");
21.         jrs.setCommand("SELECT FName, Country FROM allstar WHERE ID='"+ id+"");
22.         jrs.execute();
23.
24.         while(jrs.next()){
25.             System.out.println(jrs.getString("Fname") +" " + jrs.getString("Country"));
26.         }
27.     }
28. }
```

Note: Consider the following snapshot of the table "allstar".

ID	FName	LName	Birthday	Country
58	Stuart	Broad	1986-06-24	England
89	Herschelle	Gibbs	1974-02-23	South Africa
103	Lou	Vincent	1978-11-11	New Zealand
115	Shahid	Afridi	1980-03-01	Pakistan
124	Sanath	Jayasuriya	1969-06-30	Sri Lanka

Which is true?

Please select :

- A. Compilation fails as there is no Connection.
- B. "Shahid" Pakistan" will be printed as the output.
- C. Compilation fails as there is no "next()" method in the JdbcRowSet.
- D. An exception will be thrown at runtime.

Which of the following code fragment will create a JdbcRowSet object?

Please select :

- A. RowSetFactory myRowSetFactory = RowSetProvider.newFactory(); JdbcRowSet jrs = myRowSetFactory.createJdbcRowSet();
- B. RowSetProvider myRowSetProvider = RowSetFactory.newProvider(); JdbcRowSet jrs = myRowSetProvider.createJdbcRowSet();
- C. JdbcRowSet jrs = new JdbcRowSet();
- D. JdbcRowSet jrs = RowSetFactory.createJdbcRowSet();
- E. None of above

Consider the following code fragment.

```
1.    con.setAutoCommit(false);
2.
3.    ResultSet rs = stm.executeQuery("SELECT ID FROM allstar");
4.    CachedRowSet crs = new CachedRowSetImpl();
5.    crs.populate(rs);
6.    crs.absolute(3);
7.    crs.updateInt(1, 42);
8.    crs.updateRow();
9.
10.   con.commit();
11.
12.   crs.absolute(1);
13.
14.   rs = stm.executeQuery("SELECT ID FROM allstar");
15.
16.   while(rs.next()){
17.       System.out.print(rs.getInt("ID")+ " ");
18.   }
```

Note: Consider the following snapshot of the table "allstar". "stm" is valid reference to a Statement.

ID	FName	LName	Birthday	Country
58	Stuart	Broad	1986-06-24	England
89	Herschelle	Gibbs	1974-02-23	South Africa
103	Lou	Vincent	1978-11-11	New Zealand
115	Shahid	Afridi	1980-03-01	Pakistan
124	Sanath	Jayasuriya	1969-06-30	Sri Lanka

Which will be the output when above code fragment is executed?

Please select :

- A. 42 58 89 115 124
- B. 58 89 103 115 124
- C. 42 89 103 115 124
- D. Code fragment will cause an exception.

You are asked to establish a connection to a MySQL database in the "localhost", called "School". You are given the password as "abcd" and the user name as the "admin".

Which of the following connection URL will be suitable for above purpose? (Choose 2)

Please select :

- A. "jdbc:mysql://localhost:3306/ School?"+ "user= admin&password= abcd "
- B. "jdbc:mysql:// School:3306?user= admin&password= abcd "
- C. "jdbc:mysql://localhost:3306/ School "," abcd "," admin "
- D. "jdbc:mysql://School:3306/localhost?user= admin&password= abcd "
- E. "jdbc:mysql://:3306/ School","admin", "abcd"

Which of the following is true about java.sql.Statement? (Choose 2)

Please select :

- A. java.sql.Statement is an interface.
- B. java.sql.Statement class is used to represent a SQL Statement.
- C. We must have Connection object for creating Statement object.
- D. There are only two kinds of Statement.
- E. We can't send PL/SQL commands using a `CallableStatement` object.

Given

```
1. import java.util.concurrent.locks.*;
2. import java.util.concurrent.*;
3. import java.util.*;
4. class Whizlab{
5.
6.     static class Task1 implements Callable<Integer>{
7.         public Integer call(){
8.             return 1;
9.         }
10.    }
11.    static class Task2 implements Callable<Integer>{
12.        public Integer call(){
13.            return 2;
14.        }
15.    }
16.    static class Task3 implements Callable<Double>{
17.        public Double call(){
18.            return 3.0;
19.        }
20.    }
21.    public static void main(String []args) throws Exception{
22.        final ExecutorService pool = Executors.newFixedThreadPool(2);
23.        List<Callable<Integer>> cal = new ArrayList<Callable<Integer>>();
24.
25.        cal.add(new Task1());
26.        cal.add(new Task2());
27.
28.        System.out.print(pool.invokeAny(cal));
29.
30.        pool.shutdownNow();
31.    }
32. }
```

Which is true about the above code?

Please select :

- A. Compilation fails.
- B. An exception will be thrown at runtime
- C. Only 1 or 2 will be printed as the output.
- D. Only 2 will be printed as the output.
- E. 2.1 Will be printed as the output.

Which of the following is correct?

Please select :

- A. **public void method()throw IOException**
- B. **public void method()throw IOException,FileNotFoundException**
- C. **public void method()throws IOException || FileNotFoundException**
- D. **public void method()throws IOException,FileNotFoundException**
- E. **None of above is legal.**

Given

```
1. public class Whizlab{  
2.     public static void main(String[] args) {  
3.         try(Resource r = new Resource()){  
4.             System.out.print("1");  
5.             throw new RuntimeException();  
6.         }  
7.     }  
8. }  
9. class Resource implements AutoCloseable{  
10.    @Override  
11.    public void close() {  
12.        System.out.println("closed");  
13.    }  
14. }
```

What is the output?

Please select :

- A. 1
- B. closed
- C. 1closed
- D. 1closed followed by an exception
- E. None.

Given

```
1. class Whizlab{
2.     public static void main(String args[]){
3.         System.out.print("ok");
4.         new Whizlab().method();
5.     }
6.
7.     public void method()throws RuntimeException,ArrayIndexOutOfBoundsException{
8.         try{
9.             throw new Exception();
10.        }catch(Exception e){
11.            throw e;
12.        }
13.    }
14. }
```

What is the output?

Please select :

- A. ok
- B. ok followed by a RuntimeException
- C. A RuntimeException is thrown without printing ok
- D. A ArrayIndexOutOfBoundsException is thrown without printing ok
- E. Compilation fails.

What are true?

Please select :

- A. We can't create custom exception using subclass of `java.lang.RuntimeException` class.
- B. We can create custom unchecked exception by extending `java.lang.Exception` class.
- C. We can create custom checked exception by extending `java.lang.RuntimeException` class.
- D. We can create custom checked exception using subclass of `java.lang.Exception` class.
- E. None of the above.

Given

```
1. class Whizlab{
2.     public static void main(String args[]){
3.         try{
4.             new Whizlab().meth();
5.         }catch(ArithmeticException e){
6.             System.out.print("Arithmetic");
7.         }catch(Exception e){
8.             System.out.print("Exception");
9.         }
10.        System.out.print("Now ");
11.    finally{
12.        System.out.print("final");
13.    }
14. }
15.
16. public void meth()throws ArithmeticException{
17.     for(int x=0;x<5;x++){
18.         int y = (int)5/x;
19.         System.out.print(x);
20.     }
21. }
22. }
```

What is the output?

Please select :

- A. **Arithmetic final**
- B. **Exception final**
- C. **Arithmetic Now final**
- D. **Exception Now final**
- E. **Compilation fails.**
- F. **Arithmetic**

Given

```
1. import java.io.IOException;
2. import java.nio.charset.Charset;
3. import java.nio.file.Files;
4. import java.nio.file.Paths;
5. import java.util.ArrayList;
6. import java.util.List;
7. import java.util.stream.Collectors;
8. import java.util.stream.Stream;
9.
10. public class Whizlab{
11.     public static void main(String[] args) throws IOException{
12.         Stream<String> stream = Files.readAllLines(Paths.get("input.txt"));
13.         stream.skip(1).forEach(System.out::print);
14.     }
15. }
```

Content of the input.txt :

AB

A

AB

What is the output?

Please select :

- A. ABAAB
- B. AAB
- C. ABA
- D. Compilation fails due to error at line 12.
- E. Compilation fails due to error at line 13.

Which of the following method in `java.util.Map` introduced in java SE 8?

Please select :

- A. **stream()**
- B. **putAll(Map)**
- C. **remove(Object, Object)**
- D. **getOrElse(Object, V)**
- E. **Any of above.**

Given

```
1. import java.util.ArrayList;
2. import java.util.List;
3.
4. public class Whiz{
5.     public static void main(String[] args){
6.         List<Integer> ints = new ArrayList<>();
7.
8.         ints.add(1);
9.         ints.add(2);
10.        ints.add(3);
11.        ints.replaceAll(i -> i/2);
12.        System.out.println(ints.stream().distinct().count());
13.    }
14. }
```

What is the output?

Please select :

- A. 1
- B. 2
- C. 3
- D. An exception is thrown.
- E. Compilation fails.

Given

```
1. import java.util.ArrayList;
2. import java.util.List;
3.
4. public class Whiz{
5.
6.     public static void main(String[] args){
7.         List<Integer> list = new ArrayList<>();
8.         list.add(5);
9.         list.add(0);
10.        list.add(3);
11.        list.add(10);
12.        list.removeAll(s ->s>3 );
13.        list.forEach(System.out::print);
14.    }
15. }
```

What is the output?

Please select :

- A. 510
- B. 5310
- C. 50310
- D. A NullPointerException.
- E. Compilation fails.

Given

```
1. import java.util.stream.Stream;
2.
3. public class Whiz {
4.     public static void main(String[] args) {
5.         Stream<Double> ints = Stream.of(1.1,2.2,3.3);
6.         ints.filter(d -> d>2.3).forEach(System.out::print);
7.     }
8. }
```

What is the output?

Please select :

- A. 3.3
- B. 1.1 2.2
- C. 1.1 2.2 3.3
- D. An Exception.
- E. Compilation fails.

Which of the following lambda can be used to represent a comparator for Integer type?

Please select :

- A. **(String s) -> s.length();**
- B. **(i1,i2) -> Integer.compare(i1, i2);**
- C. **(i1,i2) -> Comparator.comparing(i1,i2);**
- D. **(i1,i2) -> i1>i2;**
- E. **None of above.**

Given

```
1. import java.util.stream.IntStream;
2. import java.util.stream.Stream;
3.
4. public class Whiz{
5.     public static void main(String[] args) {
6.         IntStream ints = IntStream.of(5,10,15);
7.         Stream<String> stngs = ints.boxed().map(Integer::toString);
8.         System.out.println(stngs.findAny());
9.     }
10. }
```

What is the output?

Please select :

- A. 5
- B. Optional[5]
- C. OptionalInt[5]
- D. An Exception.
- E. Compilation fails

Given

```
1. import java.util.stream.Stream;
2.
3. public class Whizlab{
4.
5.     public static void main(String[] args) {
6.         Stream<String> stream = Stream.of("A","AB","ABC","ABCD","AB");
7.         String out = stream.filter(s->s.length()>2).
8.                         filter(s->s.indexOf("C")>-1).findAny().orElse("None");
9.         System.out.println(out);
10.    }
11. }
```

What is the output?

Please select :

- A. ABC or ABCD
- B. ABCD
- C. ABC
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.util.stream.Stream;
2.
3. public class Whizlab{
4.
5.     public static void main(String[] args) {
6.         Stream<String> stream = Stream.of("A","B","C","D");
7.         System.out.println(stream.peek(System.out::print).findAny().orElse("NA"));
8.     }
9. }
```

What is the output?

Please select :

- A. NA
- B. AA.
- C. ABCDANA
- D. An Exception.
- E. Compilation fails.

Which of the following is correct generic class declaration?

Please select :

- A. **class Whizlab<T a,T b>**
- B. **class Whizlab <T,T>**
- C. **class Whizlab <T,D,E>**
- D. **class Whizlab <>**
- E. **None of above.**

Given

```
1. import java.util.Map;
2. import java.util.TreeMap;
3.
4. public class Whizlab{
5.
6.     public static void main(String args[]){
7.         Map<String, Integer> tmap = new TreeMap<>();
8.         tmap.put("ab",1);
9.         tmap.put("abc",2);
10.        tmap.put("abcd",3);
11.        tmap.replaceAll( (k,v) -> (int)k.charAt(v) );
12.        System.out.println(tmap.values());
13.    }
14. }
```

What is the output?

Please select :

- A. [1, 2, 3]
- B. [98, 98, 98]
- C. [98, 99, 100]
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.util.ArrayDeque;  
2.  
3. public class Whizlab{  
4.  
5.     public static void main(String args[]){  
6.         ArrayDeque<String> dq = new ArrayDeque<>();  
7.         dq.add("a");  
8.         dq.add("c");  
9.         dq.add("b");  
10.        dq.add("a");  
11.        //insert here  
12.        System.out.println(dq);  
13.    }  
14.}
```

Which of the following insert at line 11 will produce output as "[a, c, b]"?

Please select :

- A. dq.remove("a");
- B. dq.remove(0);
- C. dq.removeLastOccurrence("a");
- D. dq.remove(3);
- E. dq.removeLast("a");

Consider the following code fragment.

```
1. String []s = new String[2];
2.         s[1] = "B";
3.         ConcurrentHashMap<String, Integer> cmap = new ConcurrentHashMap<String, Integer>();
4.             cmap.put("A", new Integer(1));
5.             cmap.put(s[0], new Integer(2));
6.             cmap.put("C", 3);
7.             cmap.putIfAbsent("D", new Integer(4));
8.             System.out.print(cmap);
```

Which of the following is true?

Please select :

- A. The output will be {C=3, D=4, A=1, B=2}.
- B. The output will be {D=4, null=2, A=1, C=3}.
- C. This code fragment won't compile due to error on line 7.
- D. This code fragment won't compile due to error on line 6.
- E. An exception will be thrown at the runtime.

Consider the following code.

```
1. class Sum extends RecursiveAction<Long> {
2.
3.     static final int MAX = 50000;
4.     int low;
5.     int high;
6.     int[] array;
7.
8.     Sum(int[] arr, int lo, int hi) {
9.         array = arr;
10.        low = lo;
11.        high = hi;
12.    }
13.
14.    public Long compute() {
15.
16.        if(high - low <= MAX) {
17.            long sum = 0;
18.            for(int i=low; i < high; ++i)
19.                sum += array[i];
20.            return sum;
21.        } else{
22.
23.            int mid = low + (high - low) / 2;
24.            Sum left = new Sum(array, low, mid);
25.            Sum right = new Sum(array, mid, high);
26.            long rightAns = right.compute();
27.            left.fork();
28.            long leftAns = left.join();
29.            return leftAns + rightAns;
30.        }
31.    }
32. }
```

Which of the following is true? (Choose 2)

Please select :

- A. Code will successfully compile.
- B. Compilation fails.
- C. If the number of elements in the array "arr" is larger than 50000, then code will divide the program in to small fork-join tasks.
- D. For this purpose we have to extend RecursiveTask instead of extending the RecursiveAction.
- E. For this purpose we could also extends the RecursiveTask.

Given

```
1.     public Long compute() {  
2.         if(high - low <= MAX) {  
3.             long sum = 0;  
4.             for(int i=low; i < high; ++i)  
5.                 sum += array[i];  
6.             return sum;  
7.         } else{  
8.             int mid = low + (high - low) / 2;  
9.             Sum left = new Sum(array, low, mid);  
10.            Sum right = new Sum(array, mid, high);  
11.            long rightAns = right.compute();  
12.            left.fork();  
13.            long leftAns = left.join();  
14.            return leftAns + rightAns;  
15.        }  
16.    }
```

Which of the following is true?

Please select :

- A. Code fragment shows the appropriate way of using the Fork-Join.
- B. Code fragment doesn't show the appropriate way of using the Fork-Join.
- C. Code fragment will fail the compilation.
- D. None of above.

Which of the following is true?

Please select :

- A. The ReentrantLock was introduced in Java 1.8.
- B. The ReentrantLock and the synchronization provide same functionality and flexibility.
- C. If we are pass the fairness parameter as "false" when creating a new ReentrantLock object, it gives us the guarantee that the longest waiting thread will get the lock next.
- D. Using ReentrantLock, the thread can temporarily release the locks it has when it is going to a wait state.
- E. The constructor for this class accepts an optional time parameter. When set long value, lock will be released by the thread after the specified time.

Given

```
1. import java.nio.file.*;
2. import java.io.*;
3. class NIO{
4.     public static void main(String [] args)throws IOException{
5.         Path path = Paths.get("data.txt");
6.         File myfile = new File(path.toString());
7.         myfile.createNewFile();
8.     }
9. }
```

Note: You can assume that current working directory is empty.

Which is true? (Choose 2)

Please select :

- A. Compilation fails.
- B. As there is no file called "data.txt" the Paths class' "get()" method will cause a compile time error.
- C. Compilation succeeds.
- D. A file called "data.txt" will be created in current working directory.
- E. A file called "data.txt" will be created in the root directory.

Given

```
1. import java.nio.file.*;
2. import java.io.*;
3. class NIO{
4.     public static void main(String [] args)throws IOException{
5.         Path path1 = Paths.get("F:\\Whizlabs\\java\\NIO");
6.         Path path2 = Paths.get("c:\\output");
7.         Path path = Paths.get(path2.getRoot().toString(), path1.subpath(0,3).toString());
8.         System.out.print(path.toString());
9.
10.    }
11. }
```

Note that "F:\\Whizlabs\\java\\NIO" actually exists while there is no "C:\\output" folder.

Which is the output?

Please select :

- A. c:\\Whizlabs\\java\\NIO
- B. c:\\Whizlabs\\java
- C. f:\\Whizlabs\\java\\NIO
- D. An IllegalArgumentException is thrown at the runtime
- E. Compilation fails as C:\\output" doesn't exist.

Given :

```
1. import java.nio.file.*;
2. import java.io.*;
3. import java.nio.file.attribute.*;
4.
5. class NIO{
6.     public static void main(String [] args) throws IOException{
7.         Path path = Paths.get("..\\"+myfile.txt");
8.         //
9.     }
10. }
```

Note: assume that the myfile.txt actually exists and code runs on a windows flat form and the " myfile.txt" file is already marked as read only and you have enough permission to do any operation on the file.

Which, inserted independently at line 9, will compile and produce the group owner of the file.of the "myfile.txt" as the output?

- I. PosixFileAttributes pa = Files.readAttributes(path, PosixFileAttributes.class); System.out.print(pa.group().getName());
- II. PosixFileAttributes pa = Files.readAttributes(path, PosixFileAttributes.class); System.out.print(pa.group());

Please select :

- A. Only I will cause a compile time error.
- B. Only II will cause a compile time error.
- C. Both will cause compile time error.
- D. None of the above is true.

Which is correct?

Please select :

- A. **The java.nio.file.Files class was available since java version 1.8**
- B. **All the methods in the java.nio.file.Files class are static.**
- C. **The java.nio.file.Files class has set of static methods for reading, writing, and manipulating for only files.**
- D. **!Files.exists(path) is equivalent to Files.notExists(path).**

Given

```
1. import java.io.*;
2.
3. public class Whizlab{
4.
5.     public static void main(String[] args) {
6.         int i = 123;
7.         try{
8.             FileOutputStream out = new FileOutputStream("test.txt");
9.             ObjectOutputStream oout = new ObjectOutputStream(out);
10.            //insert here
11.        }catch (Exception ex) {
12.            ex.printStackTrace();
13.        }
14.    }
15. }
```

Which insert at line 10, will write value of i to the test.txt file?

Please select :

- A. **oout.write(i);**
- B. **oout.write(new Integer(i));**
- C. **oout.writeObject(i);**
- D. **oout.print(i);**
- E. **oout.writeln(i);**

What is true?

Please select :

- A. We can use print(), println() and write() methods in java.lang.System class for outputting string.
- B. Java.lang.System class has a static field called as "err" of type InputStream.
- C. Java.lang.System class has a static field called as "in" of type PrintStream.
- D. Java.lang.System class has a static field called as "out" of type PrintStream.
- E. None of above

Given

```
1. import java.io.FileInputStream;
2. //Codes
3. public class Stream{
4.     public static void main(String[] args) throws IOException {
5.
6.         FileInputStream in = null;
7.         FileOutputStream out = null;
8.         try {
9.             in = new FileInputStream("source.txt");
10.            out = new FileOutputStream("dest.txt");
11.            int c;
12.
13.            while ((c = in.read()) != -1) {
14.                out.write(c);
15.            }
16.        } finally {
17.            if (in != null) {
18.                in.close();
19.            }
20.            if (out != null) {
21.                out.close();
22.            }
23.        }
24.    }
25. }
```

Which are true? (Choose 2)

Please select :

- A. We have to import **java.io.FileOutputStream** and **java.io.IOException** Compilation to succeed.
- B. Importing only **java.io.FileOutputStream** is enough Compilation to succeed.
- C. Importing only **java.io.IOException** is enough Compilation to succeed.
- D. **java.io.FileInputStream** is enough Compilation to succeed.
- E. Changing **import java.io.FileInputStream;** to **import java.io.*;** will make this code works.

Given :

```
1. import java.util.stream.Stream;
2.
3. public class Whiz{
4.     public static void main(String[] args){
5.         Stream<String> stream = Stream.of("123","234","345");
6.         Stream<String> out = stream.map((String s) -> s.substring(0,1));
7.         out.forEach(System.out::print);
8.     }
9. }
```

What is the output?

Please select :

- A. 122334
- B. 123
- C. No output.
- D. An exception is thrown.
- E. Compilation fails.

Given

```
1. import java.util.stream.Stream;
2. public class Whiz{
3.     public static void main(String[] args){
4.         Stream<Double> stream = Stream.of(2.2,2.8,2.5);
5.         Stream<Integer> out = stream.mapToInt(Double::intValue);
6.         System.out.print(out.distinct().count());
7.     }
8. }
```

What is the output?

Please select :

- A. 3
- B. 0
- C. 1
- D. An Exception.
- E. Compilation fails.

Consider

```
LongStream longs = LongStream.of(12,10,64,-12);
```

Given

```
longs.average()
```

Which of the following above statement will return?

Please select :

- A. **Long wrapper**
- B. **long**
- C. **OptionalDouble**
- D. **OptionalLong**
- E. **None of above.**

Given

```
1. import java.util.stream.IntStream;  
2.  
3. public class Whiz{  
4.  
5.     public static void main(String[] args){  
6.  
7.         IntStream ints = IntStream.of(3,2,1,5,3,4,5);  
8.         System.out.print(ints.filter(e -> e>3).distinct().average().getAsDouble());  
9.     }  
10. }
```

What is the output?

Please select :

- A. 5.0
- B. 4.0
- C. 4.5
- D. 3.28
- E. Compilation fails due to error at line 8.

Given

```
1. import java.util.stream.Stream;
2.
3. public class Whiz{
4.     public static void main(String[] args){
5.
6.         Stream stream = Stream.of(10,20,"30");
7.         boolean out = stream.allMatch(in -> in instanceof Number);
8.         System.out.println(out);
9.     }
10. }
```

What is the output?

Please select :

- A. true
- B. false
- C. An exception is thrown.
- D. Compilation fails due to line 6.
- E. Compilation fails due to multiple errors.

Given

```
1. import java.util.Optional;
2. import java.util.stream.Stream;
3.
4. public class Whiz{
5.     public static void main(String[] args){
6.
7.         Stream<String> stream = Stream.of("10","20","30");
8.         Optional<String> out = stream.anyMatch(s -> s.length()>2);
9.         System.out.println(out);
10.    }
11. }
```

What is the output?

Please select :

- A. 10
- B. null
- C. Optional.empty
- D. An Exception.
- E. Compilation fails.

Which of the following will create an empty optional?

Please select :

- A. `Optional<String> ops = Optional.empty();`
- B. `Optional<String> ops = Optional.Of(null);`
- C. `Optional<String> ops = Optional.EMPTY;`
- D. `Optional<String> ops = new Optional();`
- E. `Optional<String> ops = Optional.ofNull();`

Given

```
1. import java.util.Optional;  
2.  
3. public class Whizlab{  
4.     public static void main(String[] args){  
5.         Optional<Integer> ops = Optional.of(new Integer(20));  
6.         ops.filter(x -> Integer.compare(22, x) > 0).ifPresent(System.out::print);  
7.     }  
8. }
```

What is the output?

Please select :

- A. 20
- B. No output
- C. Optional[10]
- D. A NoSuchElementException.
- E. Compilation fails.

Given

```
1. import java.util.Optional;
2. import java.util.stream.Stream;
3.
4. public class Whizlab{
5.     public static void main(String[] args){
6.         Stream<Integer> s = Stream.of(12,40,11,22);
7.         Optional<Integer> min = s.filter((Integer p) -> p%2==0).min();
8.         System.out.println(min);
9.     }
10. }
```

What is the output?

Please select :

- A. 11
- B. 12
- C. 40
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.util.function.DoubleUnaryOperator;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         DoubleUnaryOperator power = (val) -> Math.pow(val, 2);  
6.         System.out.println(power.applyAsDouble(3));  
7.     }  
8. }
```

What is the output?

Please select :

- A. 8
- B. 8.0
- C. 9.0
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.util.function.IntBinaryOperator;
2. class Whizlab{
3.     public static void main(String args[]){
4.         IntBinaryOperator inp = i1,i2 -> i1/i2;
5.         System.out.println(inp.applyAsInt(3, 5));
6.     }
7. }
```

What is the output?

Please select :

- A. 3
- B. 0
- C. 0.6
- D. An Exception.
- E. Compilation fails.

Which of the following is true?

1. **UnaryOperator has defined static method called andThen**
2. **UnaryOperator has defined default method called compose.**
3. **UnaryOperator has not defined any default methods.**

Please select :

- A. Only I.
- B. Only II.
- C. Only III.
- D. Only I and II.
- E. Only II and III.

Which of the following method does not inherit from Function interface to UnaryOperator?

Please select :

- A. **andThen**
- B. **apply**
- C. **compose**
- D. **identity**
- E. **All of above.**

Given

```
1. import java.util.function.BinaryOperator;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         BinaryOperator<Integer> bio = BinaryOperator.minBy(Integer::compare);  
6.         System.out.println(bio.apply(3,3));  
7.     }  
8. }
```

What is the output?

Please select :

- A. 3
- B. 0
- C. -1
- D. AN Exception
- E. Compilation fails.

Given

```
1. import java.util.function.Function;  
2.  
3. public class Whizlab{  
4.     public static void main(String [ ] args){  
5.         Function<String, Double> fun = Double::parseDouble;  
6.         Double d = fun.compose((String s) -> s + ".01").andThen(s -> s*2).apply("1");  
7.         System.out.println(d);  
8.     }  
9. }
```

What is the output?

Please select :

- A. 1.01
- B. 2.01
- C. 2.02
- D. 1.02
- E. Compilation fails.

Given

```
1. import java.util.function.IntSupplier;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         IntSupplier ins = Whizlab::getRand10;  
6.         System.out.println(ins.get());  
7.     }  
8.     public static int getRand10(){  
9.         return (int)(Math.random()*10) +1;  
10.    }  
11. }
```

Which of the following could be the output of above program?

Please select :

- A. 11
- B. 10
- C. 0
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.util.function.Predicate;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         String in = new String("1");  
6.         Predicate<String> ins = Predicate.isEqual(in);  
7.         System.out.println(ins.test("2"));  
8.     }  
9. }
```

What is the output?

Please select :

- A. **false**
- B. **true**
- C. An Exception is thrown.
- D. Compilation fails

Consider following statement.

An operation that accepts an object-valued and a int-valued argument, and returns no result.

Above statements is about?

Please select :

- A. **ObjIntConsumer<T>**
- B. **ObjIntSupplier<T>**
- C. **ObjIntFuction<T>**
- D. **ToObjIntConsumer<T>**
- E. **None of above.**

Which of the following is valid lambda for the Consumer interface?

Please select :

- A. **System.out::print;**
- B. **(s,v) -> System.out.print(s+v);**
- C. **b -> b==0;**
- D. **s -> s;**
- E. **None of above.**

Given

```
1. import java.util.*;
2.
3. class Df{
4.
5.     public static void main(String args[]){
6.         Locale loc = new Locale.Builder().build();
7.         System.out.print(loc.getDisplayLanguage(new Locale("En")));
8.         System.out.print(" " + loc.getDisplayCountry(new Locale("En")));
9.     }
10. }
```

Which can be true regarding above code? (Choose 2)

Please select :

- A. Compilation succeeds
- B. Compilation fails.
- C. At line 6, we have done a mistake by not calling the setRegion() or setLanguage() methods.
- D. The output will be "English"
- E. No output

You are asked to create a `DateFormat` object considering following facts.

- ü Style should be LONG
- ü It can be used to print date in FRENCH.

What is the correct way, you are going to choose?

Please select :

- A. `DateFormat df = DateFormat.getDateInstance(DateFormat.FRANCE, Locale.LONG);`
- B. `DateFormat df = DateFormat.getInstance(DateFormat.LONG, Locale.FRANCE);`
- C. `DateFormat df = DateFormat.getInstance(DateFormat.Long, Locale.FRENCH);`
- D. `DateFormat df = new DateFormat(DateFormat.LONG, Locale.FRANCE);`
- E. `DateFormat df = DateFormat.getDateInstance(DateFormat.LONG, new Locale("fr"));`
- F. `DateFormat df = DateFormat.getDateInstance(Locale.FRENCH,DateFormat.Long);`

Consider following class.

```
import java.util.*;
public class SRBundel_hi_IN extends
ListResourceBundle{
protected Object[][] getContents(){
    Object[][] resources = new Object[1]
[2];
    resources[0][0] = "Hello";
    resources[0][1] = "Namaste";
    return resources;
}
}
```

```
import java.util.*;
public class SRBundel extends
ListResourceBundle{
protected Object[][] getContents(){
    Object[][] resources = new
Object[1][2];
    resources[0][0] = "Hello";
    resources[0][1] = "Hello";
    return resources;
}
}
```

What will be the result after the compiling and executing following code?

```
1. import java.util.*;
2. public class RB{
3.     public static void main(String[] a){
4.
5.         Locale.setDefault(new Locale("hi", "IN"));
6.         ResourceBundle rb = ResourceBundle.getBundle("SRBundel", new Locale("en", "US"));
7.         System.out.print(rb.getString("Hello"));
8.     }
9. }
```

Note: There is no "SRBundel" or "SRBundel_en" or "SRBundel_en_US" defined.

Please select :

- A. Namaste.
- B. Hello.
- C. A MissingResourceException will be thrown at the runtime.
- D. Compilation fails.
- E. None of Above.

Consider following three statements.

- I. ListResourceBundle is backed by class files.
- II. We need to create additional java class files for additional locales.
- III. Using ListResourceBundle we can only store values for Strings objects only.

Which of the above statement is true about the java.util.ListResourceBundle?

Please select :

- A. Only II.
- B. Only II and III.
- C. Only I and II.
- D. All
- E. None.

Consider following statements about the MissingResourceException.

- 1. This Exception Signals that a resource is missing.**
- 2. When the ResourceBundle.getBundle() method failed to locate specified properties or class file it throws this exception.**
- 3. To avoid this exception, There should be sub class of ListResourceBundle with base name without suffix**

Which is true?

Please select :

- A. Only I.
- B. Only I and II.
- C. Only I and III.
- D. All.
- E. None.

If you are asked to create a Locale object. The country should be United States and Language should be English. Which of the following ways you will choose?

NOTE: Code should be run on both java 1.6 and 1.7 versions.

Please select :

- A. **Locale loc = new Locale("en" , "US");**
- B. **Locale loc = new Locale("US" , "en");**
- C. **Locale loc = new Locale.Builder().setLanguage("en").setRegion("US").build();**
- D. **Locale loc = new Locale.Builder().setLanguage("EN"). build();**
- E. **Locale loc = Locale.forLanguageTag("en-US");**

Given

```
1. import java.util.*;
2.
3. class Whizlab{
4.
5.     public static void main(String args[]){
6.         //insert here
7.         System.out.print(CAN.getDisplayCountry());
8.         //codes
9.     }
10. }
```

Which, inserted independently at line 6, will compile and produce output as *Canada*?

Please select :

- A. **Locale CAN = new Locale.Builder().setLanguage("en").setRegion("CA").build();**
- B. **Locale CAN = new Locale.Builder().setLanguage("en").setRegion("CA");**
- C. **Locale CAN = new Locale("ca", "DE");**
- D. **Locale CAN = new Locale("ca");**
- E. **Locale CAN = Locale.CANADA;**

Given

```
1. public class Th{  
2.  
3.     private static class Mul{  
4.         private int num;  
5.     }  
6.     private Mul n1 = new Mul();  
7.     private Mul n2 = new Mul();  
8.  
9.     public void setNum(int i, int j){  
10.        synchronized(n1){  
11.            synchronized(n2){  
12.                n1.num = i;  
13.                n2.num = j;  
14.            }  
15.        }  
16.    }  
17.  
18.    public int multi(){  
19.        synchronized(n2){  
20.            synchronized(n1){  
21.                return (n1.num*n2.num);  
22.            }  
23.        }  
24.    }  
25. }
```

Which is true about the above code?

Please select :

- A. We will have to face to memory consistency errors if we use this code in a program.
- B. We may have to face to thread deadlocking problem, if we use this code in a program.
- C. There is no risk of thread deadlocking or memory consistency errors in this code.
- D. The compilation will fail, if we try to compile this code.
- E. None of above

Given

```
1. import java.time.LocalDate;  
2.  
3. class Whizlab {  
4.     public static void main(String args[]){  
5.         LocalDate ld = LocalDate.of(2010,10,10);  
6.         int days = ld._____;  
7.         System.out.println(days);  
8.     }  
9. }
```

Which of the following can be used to fill the blank to print the number of days for the month at line 7?

Please select :

- A. **length();**
- B. **dayCount();**
- C. **lengthOfMonth();**
- D. **sizeOfMonth();**
- E. **days();**

Given

```
1. import java.time.LocalDate;
2. import java.time.LocalDateTime;
3. import java.time.format.DateTimeFormatter;
4.
5. public class Whizlab{
6.     public static void main(String [ ] args){
7.         LocalDateTime date = LocalDateTime.of(2016,12,1,12,10);
8.         LocalDate Id = date.format(DateTimeFormatter.BASIC_ISO_DATE);
9.         System.out.println(Id);
10.    }
11. }
```

What is the output?

Please select :

- A. 2016-12-01
- B. 20161201
- C. 2016-Dec-01
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.time.LocalDate;
2. import java.time.LocalDateTime;
3. import java.time.format.DateTimeFormatter;
4.
5. public class Whizlab{
6.     public static void main(String [ ] args){
7.         LocalDateTime date = LocalDateTime.of(2016,2,1,12,10);
8.         DateTimeFormatter format = DateTimeFormatter.ofPattern("D");
9.         System.out.println(date.format(format));
10.    }
11. }
```

What is the output?

Please select :

- A. 1
- B. 2016-01-01
- C. 32
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.time.Duration;  
2. import java.time.temporal.ChronoUnit;  
3.  
4. public class Whizlab{  
5.     public static void main(String [ ] args){  
6.         Duration due = Duration.of(1, ChronoUnit.HALF_DAYS);  
7.         due = due.plus(60, ChronoUnit.MINUTES);  
8.         System.out.println(due.minus(due));  
9.     }  
10. }
```

What is the output?

Please select :

- A. PT0S
- B. PT13H
- C. PT1H
- D. An Exception.
- E. Compilation fails.

Which of the following TemporalUnit can be used to represent half a day?

Please select :

- A. **TemporalUnit.HALF_DAYS**
- B. **ChronoUnit.HALFDAYS**
- C. **TemporalUnit.HALFDAYS**
- D. **ChronoUnit.DAYS**
- E. **ChronoUnit.HALF_DAYS**

Which of the following invoke can be used to get month value from a period instance? (ins is valid reference for period instance)

Please select :

- A. `ins.getLong(ChronoUnit.MONTHS)`
- B. `ins.get(ChronoUnit.MONTHS)`
- C. `ins.getMonth()`
- D. `ins.monthValue()`
- E. **None of above.**

Which of the following method of LocalDate can be used to get new LocalDate instance with only the day of the month altered?

Please select :

- A. **withMonth(int)**
- B. **withDayOfMonth(int)**
- C. **DayOfMonth(int)**
- D. **withDay(int)**
- E. **monthDay(int)**

Given

```
1. import java.time.LocalTime;
2. import java.time.temporal.ChronoUnit;
3. class Whizlab{
4.     public static void main(String args[]){
5.         LocalTime lt1 = LocalTime.of(20,00);
6.         LocalTime lt2 = LocalTime.of(21,15);
7.         long l = lt1.until(lt2,ChronoUnit.HOURS);
8.         System.out.println(l);
9.     }
10. }
```

What is the output?

Please select :

- A. 1
- B. 1.15
- C. 1.25
- D. An exception.
- E. Compilation fails.

Given

```
1. import java.time.LocalDate;
2. import java.time.LocalDateTime;
3. class Whizlab{
4.     public static void main(String args[]){
5.         LocalDateTime ldt = LocalDate.atStartOfDay();
6.         System.out.println(ldt.getHour());
7.     }
8. }
```

What is the output?

Please select :

- A. 0
- B. 12
- C. 00:00
- D. An exception.
- E. Compilation fails.

Given

```
1. import java.time.LocalTime;  
2. import java.time.temporal.ChronoUnit;  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         LocalTime lt = LocalTime.of(22,10);  
6.         lt = lt.truncatedTo(ChronoUnit.HALF_DAYS);  
7.         System.out.println(lt);  
8.     }  
9. }
```

What is the result?

Please select :

- A. 22:10
- B. 12:00
- C. 18:00
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.time.LocalDate;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         LocalDate ld = LocalDate.ofYearDay(2016, 22);  
6.         System.out.println(ld.getMonthValue());  
7.     }  
8. }
```

What is the output?

Please select :

- A. 22
- B. 0
- C. 1
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.time.Period;  
2.  
3. class Whizlab{  
4.     public static void main(String args[]){  
5.         Period p = Period.ofDays(2);  
6.         p = p.multipliedBy(30);  
7.         System.out.println(p.toTotalMonths());  
8.     }  
9. }
```

What is the output?

Please select :

- A. 2
- B. 1
- C. 0
- D. An Exception.
- E. Compilation fails.

Given

```
1. import java.time.Period;  
2.  
3. public class Whizlab{  
4.     public static void main(String [] args){  
5.         Period p1 = Period.ofYears(1);  
6.         Period p2 = Period.of(0, 1, 0);  
7.         Period p3 = p1.plus(p2);  
8.         System.out.println(p3.getDays());  
9.     }  
10. }
```

What is the output?

Please select :

- A. 397
- B. 396
- C. 0
- D. An Exception.
- E. Compilation fails.

Given

```
import java.time.LocalDateTime;
import java.time.format.DateTimeFormatter;
public class Whizlab{
    public static void main(String [] args){
        String date = "1994-2-28 11:22";
        DateTimeFormatter format = DateTimeFormatter.ofPattern("yyyy-M-dd H:m");
        LocalDateTime ldt = LocalDateTime.parse(date, format);
        System.out.println(ldt);
    }
}
```

What is the output?

Please select :

- A. 1994-2-28T11:22
- B. 1994-02-28T11:22
- C. 1994-FEB-28T11:22
- D. An Exception.
- E. Compilation fails.