**Question1:**

**public class HelloWorld{**

**public static void main(String []args){**

**String names[] = {"Thomas","Peter","Joseph"} ;**

**String pwd[] = new String [3] ;**

**int idx = 0 ;**

**try{**

**for(String n : names){**

**pwd[idx] = n.substring(2,6);**

**idx++ ;**

**}**

**}**

**catch(Exception e){**

**System.out.println("Invalid Name");**

**}**

**for(String p:pwd){**

**System.out.println(p);**

**}**

**}**

**}**

**public String substring(int startIndex, int endIndex):** This method returns new String object containing the substring of the given string from specified startIndex to endIndex.

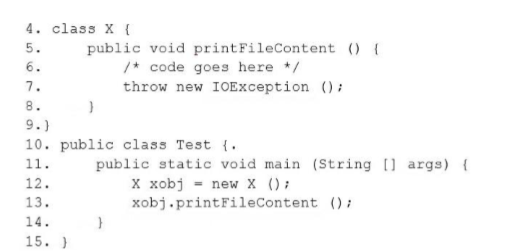
In case of string:

* **startIndex:** inclusive
* **endIndex:** exclusive

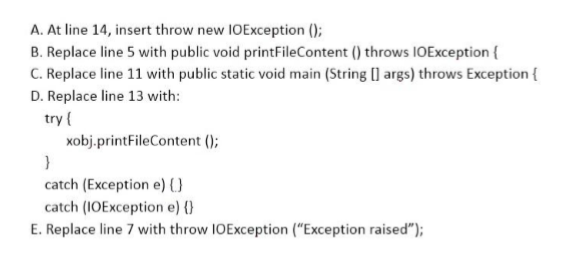
Let's understand the startIndex and endIndex by the code given below.

1. String s="hello";
2. System.out.println(s.substring(0,2));//he
3. In the above substring, 0 points to h but 2 points to e (because end index is exclusive).

2. Given the code fragment:



Which two modifications should you make so that the code compiles successfully?



A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** E

Lavy Notes: Correct answer is B. As per my test excution below code excuted without any compailation errors

Class X

**package** JavaPkg;

**import** java.io.IOException;

**public** **class** X {

**public** **void** printFileContent() **throws** IOException {

System.***out***.println("I am from Print File content");

**throw** **new** IOException();

}

}

Test.java

**package** JavaPkg;

**import** java.io.IOException;

**public** **class** Test {

**public** **static** **void** main(String[] args) **throws** IOException {

// **TODO** Auto-generated method stub

X xobj= **new** X();

xobj.printFileContent();

}

}

3. Given the code fragment:

public class HelloWorld{

void readcard(int cardno) throws Exception{

System.out.println("Readcard");

}

void Checkcard(int cardno) throws RuntimeException{

System.out.println("Checking Card");

}

public static void main(String []args){

HelloWorld hw= new HelloWorld();

int test=12344;

hw.Checkcard(test);

hw.readcard(test);

}

}

What is the result?

A. Reading CardChecking Card

B. Compilation fails only at line n1.

C. Compilation fails only at line n2.

D. Compilation fails only at line n3.

E. Compilation fails at both line n2 and line n3.

**Answer:** D

(HelloWorld.java:17: error: unreported exception Exception; must be caught or declared to be thrown

hw.readcard(test);)

4. Given the code fragment:

public class HelloWorld{

static int count =0;

int i=0;

public void changecount(){

while(i<5){

i++;

count++;

}

}

public static void main(String []args){

HelloWorld hw1= new HelloWorld();

HelloWorld hw2= new HelloWorld();

hw1.changecount();

hw2.changecount();

System.out.println(hw1.count +" :" +hw2.count);

}

}

What is the result?

A. 5 : 5

B. 10 : 10

C. 5 : 10

D. Compilation fails.

**Answer:** B

Explanation: References:

5. Given the code fragment:

What is the result?

**package** JavaPkg;

**import** java.time.LocalDate;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

LocalDate date= LocalDate.*of*(2012,01,32);

date.plusDays(10);

System.***out***.println(date);

}

}

A. 2012-02-10

B. 2012-02-11

C. Compilation fails

D. A DateTimeException is thrown at runtime.

**Answer:** C

Lavy notes- As per my execution runtime exception occurred.

Exception in thread "main" java.time.DateTimeException: Invalid value for DayOfMonth (valid values 1 - 28/31): 32

at java.base/java.time.temporal.ValueRange.checkValidValue(Unknown Source)

at java.base/java.time.temporal.ChronoField.checkValidValue(Unknown Source)

at java.base/java.time.LocalDate.of(Unknown Source)

at JavaPkg.Test.main(Test.java:6)

6. Given the code fragment:

**package** JavaPkg;

**public** **class** Test {

**public** **static** **void** main(String[] args) {

String str1 = "Java";

String str2 = **new** String("java");

//line n1

**if** (str1.equalsIgnoreCase(str2)) {

System.***out***.println("equal");

}**else** {

System.***out***.println("not equal");

}

}

}

Which code fragment, when inserted at line n1, enables the App class to print Equal?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** B

7. Which three statements are true about the structure of a Java class?

A. A public class must have a main method.

B. A class can have only one private constructor.

C. A method can have the same name as a field.

D. A class can have overloaded static methods.

E. The methods are mandatory components of a class.

F. The fields need not be initialized before use.

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**Answer:** A,C,E

8. Given the code fragments:

**package** p1;

**public** **class** A {

**public** **void** Test() {

System.***out***.println("Test - P1-A");

}

}

**package** p1.p2;

**import** p1.A;

**public** **class** B {

**public** **void** sound() {

System.***out***.println("Cat-Meow");

A b= **new** A();

b.Test();

}

}

**package** p3;

**import** p1.A;

**import** p1.p2.B;

**public** **class** C {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

A o1=**new** A();

B o2=**new** B();

}

}

Which modification enables the code to compile?

A. Replace line n1 with:import p1.\*;Replace line n2 with:import p1. p2.\*;

B. Replace line n1 with:import p1. A;Replace line n2 with:import p1.\*;

C. Replace line n1 with:import p1. A;Replace line n2 with:import p1. A;import p1. p2.B ;

D. Replace line n1 with:import p1;Replace line n2 with:import p1;import p1. p2;

**Answer:** C

9. Given:

**package** JavaPkg;

**public** **class** A {

**public** **void** test() {

System.***out***.println("A");

}

}

**package** JavaPkg;

**public** **class** B **extends** A{

**public** **void** test() {

System.***out***.println("B");

}

}

**package** JavaPkg;

**public** **class** C **extends** A{

**public** **void** test() {

System.***out***.println("C");

}

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

A b1=**new** A();

A b2=**new** C();

b1=(A)b2;

A b3= (B)b2;

b1.test();

b3.test();

}

}

What is the result?

A. AB

B. AC

C. CC

D. A ClassCastException is thrown only at line n1.

E. A ClassCastException is thrown only at line n2.

**Answer:** B

Lavy notes: Wrong Question

Exception in thread "main" java.lang.ClassCastException: JavaPkg.C cannot be cast to JavaPkg.B

at JavaPkg.C.main(C.java:12)

10. Which code fragment causes a compilation error?

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** D

Lavy notes: can’t convert from double to float ---compilation error

11. Given the code fragment:

**package** JavaPkg;

**public** **class** C{

**public** **static** **void** main(String[] args) {

**int** ans =10;

System.***out***.println("Test");

**try** {

**int** num=10;

**int** div =0;

ans= num/div;

}

**catch**(ArithmeticException ae) {

ans=0;

System.***out***.println("Ae -invalid nummber");

}

**catch**(Exception e) {

System.***out***.println("invalid nummber");

}

System.***out***.println("Answer =" +ans);

}

}

**Results**

Test

Ae -invalid nummber

Answer =0

What is the result?

A. Answer = 0

B. Invalid calculation

C. Compilation fails only atline n1.

D. Compilation fails only atline n2.

E. Compilation fails only atline n1andline2.

**Answer:** E

12. Given the following class:

Which two changes would encapsulate this class and ensure that the area field is always equal to length \*

height whenever the Rectangle class is used?

A. Call the setArea method at the end of the setHeight method.

B. Call the setArea method at the beginning of the setHeight method.

C. Call the setArea method at the end of the setLength method.

D. Call the setArea method at the beginning of the setLength method.

E. Change the setArea method to private.

F. Change the area field to public.

**Answer:** A,E

13. Given the code fragment:

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What is the result?

A. 1324

B. 2413

C. 3142

D. 4231

**Answer:** C

14. Which statement is true about the switch statement?

A. It must contain the default section.

B. The break statement, at the end of each case block, is mandatory.

C. Its case label literals can be changed at runtime.

D. Its expression must evaluate to a single value.

**Answer:** D

15. Given the code fragment:

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What is the result?

A. Jesse 25Walter 52

B. Compilation fails only at line n1

C. Compilation fails only at line n2

D. Compilation fails at both line n1 and line n2

**Answer:** B

16. Given:

And given the code fragment:

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What is the result?

A. 300:300200:300

B. 300:100200:300

C. 300:00:300

D. 200:300200:300

**Answer:** D

17. Given the definitions of the MyString class and the Test class:

What is the result?

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A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** C

18. You are asked to develop a program for a shopping application, and you are given the

following information:

Which definition of the Toy class adds a valid layer of abstraction to the class hierarchy?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A

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19. Given the content of three files:

Which statement is true?

A. Only the A.Java file compiles successfully.

B. Only the B.java file compiles successfully.

C. Only the C.java file compiles successfully.

D. The A.Java and B.java files compile successfully.

E. The B.java and C.java files compile successfully.

F. The A.Java and C.java files compile successfully.

**Answer:** A

20. Given the following code for the classes MyException and Test:

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What is the result?

A. A

B. B

C. Either A or B

D. A B

E. A compile time error occurs at line n1

**Answer:** B

21. Given:

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What is the result?

A. 10:20

B. 0:20

C. Compilation fails at line n1

D. Compilation fails at line n2

**Answer:** D

22. Given the code snippet from a compiled Java source file:

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Which command-line arguments should you pass to the program to obtain the following output?

Arg is 2

A. java MyFile 1 3 2 2

B. java MyFile 2 2 2

C. java MyFile 1 2 2 3 4

D. java MyFile 0 1 2 3

**Answer:** A

23. Given the following class:

Which three pieces of code, when inserted independently, set the value of amount to 100?

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

**Answer:** B,C,E

24. Given the following code:

What is the output?

A. 44

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B. 35

C. 47

D. 54

E. 45

F. 421

**Answer:** E

25. Given the code fragment:

What is the result?

A. 2 4

B. 0 2 4 6

C. 0 2 4

D. Compilation fails

**Answer:** C

26. Given the code fragment:

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What is the result?

A. Match 1

B. Match 2

C. No Match

D. A NullPointerException is thrown at runtime.

**Answer:** B

27. Given:

What is the result?

A. An exception is thrown at runtime.

B. InitializedStartedInitialized

C. InitializedStarted

D. Compilation fails.

**Answer:** D

28. Given:

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What is the result?

A. Compilation fails.

B. 11

C. 8

D. 9

E. 10

**Answer:** D

29. Which three statements describe the object-oriented features of the Java language?

A. Objects cannot be reused.

B. A subclass can inherit from a superclass.

C. Objects can share behaviors with other objects.

D. A package must contain more than one class.

E. Object is the root class of all other objects.

F. A main method must be declared in every class.

**Answer:** B,C,F

30. Given:

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What is the result?

A. false, false

B. false, true

C. true, false

D. true, true

**Answer:** B

31. Given the code fragment:

What is the result?

A. (green, red, yellow, cyan)

B. (green, blue, yellow, cyan)

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C. (green, red, cyan, yellow)

D. AnIndexOutOfBoundsExceptionis thrown at runtime.

**Answer:** C

32. Given the code fragment:

What is the result if the integer aVar is 9?

A. 10 Hello World!

B. Hello Universe!

C. Hello World!

D. Compilation fails.

**Answer:** A

33. Given the code fragment:

What is the result?

A. Compilation fails.

B. Hi removed

C. An UnsupportedOperationException is thrown at runtime.

D. The program compiles, but it prints nothing.

**Answer:** A

34. Given the code fragment:

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What is the result?

A. A B C

B. A B C D E

C. A B D E

D. Compilation fails.

**Answer:** C

35. Given:

What is the result?

A. Option A

B. Option B

C. Option C

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D. Option D

**Answer:** D

36. What is the name of the Java concept that uses access modifiers to protect variables and hide them

within a class?

A. Encapsulation

B. Inheritance

C. Abstraction

D. Instantiation

E. Polymorphism

**Answer:** A

Explanation:

Using the private modifier is the main way that an object encapsulates itself and hide data from the outside

world.

37. Given the code fragment:

What is the result?

A. 3

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B. 4

C. -1

D. Compilation fails.

**Answer:** B

38. Given:

And given the commands:

javac Test.Java Java Test Hello

What is the result?

A. Success

B. Failure

C. Compilation fails.

D. An exception is thrown at runtime

**Answer:** B

39. Given:

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And given the commands:

javac Test.java java Test

What is the result?

A. Java SE

B. Java EE

C. Compilation fails at line n1.

D. A NullPointerException is thrown at runtime.

**Answer:** A

40. Given the code fragment:

What is the result?

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A. [Robb, Rick, Bran]

B. [Robb, Rick]

C. [Robb, Bran, Rick, Bran]

D. An exception is thrown at runtime.

**Answer:** A

41. Given the code fragment:

Test.java

Which is the result?

A. Compilation fails in the Employee class.

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B. null : 0: 0Jack : 50 : 0Chloe : 40 : 5000

C. null : 0 : 0Jack : 50 : 2000Chloe : 40 : 5000

D. Compilation fails in the Test class.

E. Both the Employee class and the test class fail to compile.

**Answer:** E

42. Given: Acc.java:

Which statement is true?

A. Both p and s are accessible by obj.

B. Only s is accessible by obj.

C. Both r and s are accessible by obj.

D. p, r, and s are accessible by obj.

**Answer:** B

43. Given the code fragment from three files:

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Which code fragment, when inserted at line 2, enables the code to compile?

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

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**Answer:** E

44. Given the code fragment:

What is the result?

A. Execution terminates in the first catch statement, and caught a RuntimeException is printed to the

console.

B. Execution terminates in the second catch statement, and caught an Exception is printed to the console.

C. A runtime error is thrown in the thread "main".

D. Execution completes normally, and Ready to use is printed to the console.

E. The code fails to compile because a throws keyword is required.

**Answer:** C

45. Given:

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What is the result?

A. Area is 6.0

B. Area is 3.0

C. Compilation fails at line n1

D. Compilation fails at line n2.

**Answer:** D

46. Given:

What is the result?

A. 200.0 : 100.0

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B. 400.0 : 200.0

C. 400.0 : 100.0

D. Compilation fails.

**Answer:** C

47. Given the following array:

Which two code fragments, independently, print each element in this array?

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

F. Option F

**Answer:** B,E

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48. Given the code fragment:

What is the result?

A. May 04, 2014T00:00:00.000

B. 2014-05-04T00:00: 00. 000

C. 5/4/14T00:00:00.000

D. An exception is thrown at runtime.

**Answer:** D

49. Given:

What is the result?

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A. Compilation fails.

B. 3 5

C. 0 0

D. 9 25

**Answer:** B

50. Given:

What is the result?

A. C B A

B. C

C. A B C

D. Compilation fails at line n1 and line n2

**Answer:** C

51. Given the code fragment:

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What is the result?

A. 100

B. 101

C. 102

D. 103

E. Compilation fails

**Answer:** E

52. Given the code fragment: int[] array = {1, 2, 3, 4, 5};

And given the requirements:

1. Process all the elements of the array in the order of entry.

2. Process all the elements of the array in the reverse order of entry.

3. Process alternating elements of the array in the order of entry. Which two statements are true?

A. Requirements 1, 2, and 3 can be implemented by using the enhanced for loop.

B. Requirements 1, 2, and 3 can be implemented by using the standard for loop.

C. Requirements 2 and 3 CANNOT be implemented by using the standard for loop.

D. Requirement 1 can be implemented by using the enhanced for loop.

E. Requirement 3 CANNOT be implemented by using either the enhanced for loop or the standard for loop.

**Answer:** D,E

53. Given the code fragment:

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What is the result?

A. A B C Work done

B. A B C D Work done

C. A Work done

D. Compilation fails

**Answer:** C

54. Given the code fragment:

What is the result?

A. An exception is thrown at runtime.

B. -1

C. 5

D. 0

**Answer:** A

55. Given the code fragment:

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What is the result?

A. true true

B. true false

C. false false

D. false true

**Answer:** C

56. Given the code fragment:

What is the result?

A. An exception is thrown at runtime.

B. Compilation fails.

C. 13480.0

D. 13480.02

**Answer:** C

57. Given:

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Which code fragment should you use at line n1 to instantiate the dvd object successfully?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** C

58. Given the code fragment:

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Which code fragment, inserted at line n1, pints The Top element: 30?

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** A

59. fragment:

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Which two modifications should you make so that the code compiles successfully?

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** A,C

60. Given the code fragments:

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Which code fragment, when inserted at line n1, enables the code to print Hank?

A. checkAge (iList, ( ) -> p. get Age ( ) > 40);

B. checkAge(iList, Person p -> p.getAge( ) > 40);

C. checkAge (iList, p -> p.getAge ( ) > 40);

D. checkAge(iList, (Person p) -> { p.getAge() > 40; });

**Answer:** C

61. Which two statements are true?

A. Error class is unextendable.

B. Error class is extendable.

C. Error is a RuntimeException.

D. Error is an Exception.

E. Error is a Throwable.

**Answer:** B,C

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62. Given the code fragment:

Which three code fragments can be independently inserted at line n1 to enable the code to print one?

A. Byte x = 1;

B. short x = 1;

C. String x = "1";

D. Long x = 1;

E. Double x = 1;

F. Integer x = new Integer ("1");

**Answer:** A,B,F

63. Which two are benefits of polymorphism?

A. Faster code at runtime

B. More efficient code at runtime

C. More dynamic code at runtime

D. More flexible and reusable code

E. Code that is protected from extension by other classes

**Answer:** B,D

64. Given the code fragment:

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Which code fragment prints red: blue: small: medium?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** D

65. Given:

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What is the result?

A. 97 9899 100 null null null

B. 97 9899 100 101 102 103

C. Compilation rails.

D. A NullPointerException is thrown at runtime.

E. An ArraylndexOutOfBoundsException is thrown at runtime.

**Answer:** A

66. CORRECT TEXT

Given:

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Which code fragment can replace the if block?

A) stuff.equals (“TV”) ? res= “Walter” : stuff.equals (“Movie”) ? res = “White” : res = “No Result”;

B) res = stuff.equals (“TV”) ? “Walter” else stuff.equals (“Movie”)? “White” : “No Result”;

C) res = stuff.equals (“TV”) ? stuff.equals (“Movie”)? “Walter” : “White” : “No Result”;

D) res = stuff.equals (“TV”)? “Walter” : stuff.equals (“Movie”)? “White” : “No Result”;

**Answer:**

67. Given:

Given the code fragment:

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Which two sets of actions, independently, enable the code fragment to print Fit?

A. At line n1 insert:import clothing.Shirt;At line n2 insert:String color = getColor();

B. At line n1 insert:import clothing.\*;At line n2 insert:String color = Shirt.getColor();

C. At line n1 insert:import static clothing.Shirt.getcolor;At line n2 insert:String color = getColor();

D. At line n1 no changes required.At line n2 insert:String color = Shirt.getColor();

E. At line n1 insert:import clothing;At line n2 insert:String color = Shirt.getColor();

**Answer:** A

68. Given the code fragment:

What is the result?

A. 1:2:3:4:5:

B. 1:2:3:

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C. Compilation fails.

D. An ArrayoutofBoundsException is thrown at runtime.

**Answer:** A

69. Given the code fragments:

What is the result?

A. Compilation fails only at line n2.

B. RTool::exportTool::export

C. Tool::exportTool:export

D. Compilation fails only at line n1.

E. Compilation fails at both line n1 and line n2.

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**Answer:** E

70. Given:

What is the result?

A. int main 1

B. Object main 1

C. String main 1

D. Compilation fails

E. An exception is thrown at runtime

**Answer:** C

71. Which three are advantages of the Java exception mechanism?

A. Improves the program structure because the error handling code is separated from the normal program

function

B. Provides a set of standard exceptions that covers all the possible errors

C. Improves the program structure because the programmer can choose where to handle exceptions

D. Improves the program structure because exceptions must be handled in the method in which they

occurred

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E. Allows the creation of new exceptions that are tailored to the particular program being created

**Answer:** A,C,D

72. Given:

What is the result?

A. int sum is 30float sum is 30.0

B. int sum is 30double sum is30.0

C. integer sum is 30double sum is 30.0

D. integer sum is 30float sum is 30.0

**Answer:** D

73. Which statement is true about Java byte code?

A. It can run on any platform.

B. It can run on any platform only if it was compiled for that platform.

C. It can run on any platform that has the Java Runtime Environment.

D. It can run on any platform that has a Java compiler.

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E. It can run on any platform only if that platform has both the Java Runtime Environment and a Java

compiler.

**Answer:** D

74. Given:

What is the result?

A. 10 20 30 40

B. 0 0 30 40

C. Compilation fails.

D. An exception is thrown at runtime.

**Answer:** C

75. Given:

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What is the result?

A. c=b = falsef = 0.0

B. c= nullb = truef = 0.0

C. c=0b = falsef = 0.0f

D. c= nullb = falsef = 0.0F

**Answer:** C

76. Given the code fragment:

What is the result if the integer aVar is 9?

A. Compilation fails.

B. 10 Hello Universe!

C. 10 Hello World!

D. 9 Hello World!

**Answer:** C

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77. Given:

And given the code fragment:

What is the result?

A. C2C2

B. C1C2

C. C1C1

D. Compilation fails

**Answer:** A

78. Given the code fragment:

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What is the result?

A. Compilation fails.

B. 0 Found

C. 1 Found

D. 3 Found

**Answer:** D

79. Given the code fragment:

Which three lines fail to compile?

A. Line 7

B. Line 8

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C. Line 9

D. Line 10

E. Line 11

F. Line 12

**Answer:** A,D,F

80. Given the code fragment:

Which two code fragments can be independently inserted at line n1 to enable the code to print the elements

of the array in reverse order?

A. while (x > 0) {x--;System.out.print(array[x]);}

B. do {x--;System.out.print(array[x]);} while (x >= 0);

C. while (x >= 0) {System.out.print(array[x]);x--;}

D. do {System.out.print(array[x]);--x;} while (x >= 0);

E. while (x > 0) {System.out.print(array[--x]);}

**Answer:** B,E

81. Given the code fragment:

Assume that the system date is June 20, 2014. What is the result?

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A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** D

82. You are asked to create a method that accepts an array of integers and returns the highest value from

that array.

Given the code fragment:

Which method signature do you use at line n1?

A. public int findMax (int [] numbers)

B. static int[] findMax (int max)

C. static int findMax (int [] numbers)

D. final int findMax (int [] )

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**Answer:** A

83. Given the code fragment:

What is the result?

A. Sum is 600

B. Compilation fails at line n1.

C. Compilation fails at line n2.

D. A ClassCastException is thrown at line n1.

E. A ClassCastException is thrown at line n2.

**Answer:** C

84. Given the code fragment:

Which two modifications, made independently, enable the code to compile?

A. Make the method at line n1 public.

B. Make the method at line n2 public.

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C. Make the method at line n3 public.

D. Make the method at line n3 protected.

E. Make the method at line n4 public.

**Answer:** C,D

85. Given:

What is the result?

A. 10 : 30 : 6

B. 10 : 22 : 22

C. 10 : 22 : 20

D. 10 : 22 : 6

**Answer:** B

Explanation: Explanation

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86. Given the code fragment:

Which two modifications, when made independently, enable the code to print joe:true: 100.0?

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** A,C

87. Given:

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What is the result?

A. BaseDerivedA

B. BaseDerivedB

C. DerivedBDerivedB

D. DerivedBDerivedA

E. A classcast Exception is thrown at runtime.

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**Answer:** C

88. Given:

What is the result?

A. 3 4 5 6

B. 3 4 3 6

C. 5 4 5 6

D. 3 6 4 6

**Answer:** C

89. Which three statements are true about exception handling?

A. Only unchecked exceptions can be rethrown.

B. All subclasses of the RuntimeException class are recoverable.

C. The parameter in a catch block is of Throwable type.

D. All subclasses of the RuntimeException class must be caught or declared to be thrown.

E. All subclasses of the Exception class except the RuntimeException class are checked exceptions.

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F. All subclasses of the Error class are checked exceptions and are recoverable.

**Answer:** C,E,F

90. Given the code fragment:

And given the requirements:

Which two code fragments can be independently placed at line n1 to meet the requirements?

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** A,C

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91. Given the code fragment:

What is the result?

A. 10 : 10

B. 5 : 5

C. 5 : 10

D. Compilation fails

**Answer:** A

92. Given:

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What is the result?

A. Compilation fails.

B. false true

C. true false

D. true true

E. false false

**Answer:** B

93. Given:

What is the result?

A. nullRichardDonald

B. RichardDonald

C. Compilation fails.

D. AnArrayIndexOutOfBoundsExceptionis thrown at runtime.

E. ANullPointerExceptionis thrown at runtime.

**Answer:** A

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94. Which one of the following code examples uses valid Java syntax?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A

95. Given:

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And given the code fragment:

What is the result?

A. 4W 100 Auto4W 150 Manual

B. Null 0 Auto4W 150 Manual

C. Compilation fails only at line n1

D. Compilation fails only at line n2

E. Compilation fails at both line n1 and line n2

**Answer:** C

96. Given the code fragment:

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Which modification enables the code fragment to print TrueDone?

A. Replace line 5 With String opt= "true";Replace line 7 with case "true":

B. Replace line 5 with boolean opt = l;Replace line 7 with case 1=

C. At line 9, remove the break statement.

D. Remove the default section.

**Answer:** A

97. Given the code fragment:

Which option represents the state of the num array after successful completion of the outer loop?

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A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A

98. Given:

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And given the code fragment:

What is the result?

A. Compilation fails at line n2.

B. Read Book

C. Read E-Book

D. Compilation fails at line n1.

E. Compilation fails at line n3.

**Answer:** B

99. The following grid shows the state of a 2D array:

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This grid is created with the following code:

Which line of code, when inserted in place of //line n1, adds an X into the grid so that the grid contains three

consecutive X’s?

A. grid[1][3] = ‘X’;

B. grid[3][1] = ‘X’;

C. grid[0][2] = ‘X’;

D. grid[2][0] = ‘X’;

E. grid[1][2] = ‘X’;

**Answer:** C

100. Given:

What is the result?

A. Hello Log 1:0

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B. Hello Log 2:1

C. Welcome Log 2:1

D. Welcome Log 1:0

**Answer:** C

101. Given the code fragment:

What is the result?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** C

102. Given:

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What is the result?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** B

103. Given:

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class Test int a1;

public static void doProduct(int a) { a = a \* a;

)

public static void doString(StringBuilder s) { s.append(“ “ + s);

}

public static void main(String[] args) { Test item = new Test();

item.a1 = 11;

StringBuilder sb = new StringBuilder(“Hello”); Integer i = 10;

doProduct(i); doString(sb); doProduct(item.a1);

System.out.println(i + “ “ + sb + “ “ + item.a1);

}

}

What is the result?

A. 10 Hello Hello 11

B. 10 Hello Hello 121

C. 100 Hello 121

D. 100 Hello Hello 121

E. 10 Hello 11

**Answer:** B

104. Given:

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And given the code fragment: Book book1 = new EBook ();

Book1.readBook();

Which option enables the code to compile?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A

105. Given:

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What is the result?

A. 100 0 : 100 200:

B. 100 0 : 100 0 :

C. 100 200 : 100 200 :

D. 100 200 : 100 0 :

**Answer:** B

106. Given the code fragment:

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Which modification enables the code to print 54321?

A. Replace line 6 with System, out. print (--x) ;

B. At line7, insert x --;

C. Replace line 6 with --x; and, at line 7, insert system, out. print (x);

D. Replace line 12 With return (x > 0) ? false: true;

**Answer:** A

107. Given:

How many MarkList instances are created in memory at runtime?

A. 1

B. 2

C. 3

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D. 4

**Answer:** A

108. Given the code fragments:

Which modification enables the code to compile?

A. Replace line n1 with:import p1.A;Replace line n2 with:import p1.A;import p1.p2.B;

B. Replace line n1 with:import p1;Replace line n2 with:import p1;import p1.p2;

C. Replace line n1 with:import p1.A;Replace line n2 with:import p1.\*;

D. Replace line n1 with:import p1.\*;Replace line n2 with:import p1.p2.\*;

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**Answer:** D

109. Given:

And the code fragment:

Which code fragment, when inserted at line 14, enables the code to print Mike Found?

A. int f = ps.indexOf (p2)

B. int f = ps.indexOf (Patient (“Mike”) );

C. int f = ps.indexOf (new Patient “Mike”) );

D. Patient p = new Patient (“Mike”);Int f = ps.indexOf (p)

**Answer:** A

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110. Given the code fragment:

What is the result?

A. Compilation fails at both line n1 and line n2.

B. Compilation fails only at line n2.

C. Compilation fails only at line n1.

D. Jesse 25Walter 52

**Answer:** D

111. Given:

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And given the commands: javac Test.java

java Test TRUE null What is the result?

A. TRUE null

B. true false

C. false false

D. true true

E. AClassCastExceptionis thrown at runtime.

**Answer:** D

112. Given the following code for a Planet object:

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What is the output?

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** C

113. Given the following main method:

What is the result?

A. 5 4 3 2 1 0

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B. 5 4 3 2 1

C. 4 2 1

D. 5

E. Nothing is printed

**Answer:** D

114. Given:

Which option enables the code to compile?

A. Option A

B. Option B

C. Option C

D. Option D

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**Answer:** C

115. Given:

What is the result?

A. Compilation fails at line n3 and line n4.

B. Compilation fails at line n1 and line n2.

C. Welcome Visit Count:1Welcome Visit Count: 2

D. Welcome Visit Count:1Welcome Visit Count: 2

**Answer:** B

116. Given:

What is the result?

A. True false

B. True null

C. Compilation fails

D. A NullPointerException is thrown at runtime

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**Answer:** A

117. Given:

What is the result?

A. true:true

B. true:false

C. false:true

D. false:false

**Answer:** C

118. Given:

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What is the result?

A. A B C D

B. A C D

C. A B C C

D. A B D

E. A B D C

**Answer:** E

119. Given the code fragments:

And,

Which statement is true?

A. After line 11, three objects are eligible for garbage collection.

B. After line 11, two objects are eligible for garbage collection.

C. After line 11, one object is eligible for garbage collection.

D. After line 11, none of the objects are eligible for garbage collection.

**Answer:** C

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120. Given the following two classes:

How should you write methods in the ElectricAccount class at line n1 so that the member variable bill is

always equal to the value of the member variable kwh multiplied by the member variable rate?

Any amount of electricity used by a customer (represented by an instance of the customer class) must

contribute to the customer's bill (represented by the member variable bill) through the method use

Electricity method. An instance of the customer class should never be able to tamper with or decrease the

value of the member variable bill.

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A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** A,C

121. Given the code fragment:

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Which code fragment, when inserted at line 3, enables the code to print 10:20?

A. int[] array n= new int[2];

B. int[] array;array = int[2];

C. int array = new int[2];

D. int array [2] ;

**Answer:** B

122. Given:

What is the result?

A. myStr: 9009, myNum: 9009

B. myStr: 7007, myNum: 7007

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C. myStr: 7007, myNum: 9009

D. Compilation fails

**Answer:** C

123. Given the code fragment:

What is the result?

A. 1 2 3 4followed by an ArrayIndexOutOfBoundsException

B. 1 2 3

C. 1 2 3 4

D. Compilation fails.

**Answer:** A

124. Given the code fragment:

What is the result?

A. An exception is thrown at runtime.

B. 07-31-2014

C. 2014-07-31

D. 2014-09-30

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**Answer:** C

125. Which statement will empty the contents of a StringBuilder variable named sb?

A. sb. deleteAll ();

B. sb. delete (0, sb. size () );

C. sb. delete (0, sb. length () );

D. sb. removeAll ();

**Answer:** C

126. Given:

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And given the code fragment:

Which two modifications enable the code to print the following output?

Canine 60 Long

Feline 80 Short

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A. Replace line n1 with:super ();this.bounds = bounds;

B. Replace line n1 with:this.bounds = bounds;super ();

C. Replace line n2 with:super (type, maxSpeed);this (bounds);

D. Replace line n1 with:this (“Canine”, 60);this.bounds = bounds

E. Replace line n2 with:super (type, maxSpeed);this.bounds = bounds;

**Answer:** A

127. Given:

What is the result?

A. 400 200

B. 200 200

C. 400 400

D. Compilation fails.

**Answer:** A

128. Given the following class:

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And given the following main method, located in another class:

Which three lines, when inserted independently at line n1, cause the program to print a 0 balance?

A. this.amount = 0;

B. amount = 0;

C. acct (0) ;

D. acct.amount = 0;

E. acct. getAmount () = 0;

F. acct.changeAmount(0);

G. acct.changeAmount(-acct.amount);

H. acct.changeAmount(-acct.getAmount());

**Answer:** A,C,D

129. Given the code fragment:

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What is the result?

A. Element 0Element 1

B. Null element 0Null element 1

C. NullNull

D. A NullPointerException is thrown at runtime.

**Answer:** D

130. Which statement best describes encapsulation?

A. Encapsulation ensures that classes can be designed so that only certain fields and methods of an object

are accessible from other objects.

B. Encapsulation ensures that classes can be designed so that their methods are inheritable.

C. Encapsulation ensures that classes can be designed with some fields and methods declared as abstract.

D. Encapsulation ensures that classes can be designed so that if a method has an argument MyType x, any

subclass of MyType can be passed to that method.

**Answer:** A

131. Given the following class declarations: Which answer fails to compile?

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A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

**Answer:** E

132. Given the code fragment:

Which code fragment, when inserted at line 9, enables the code to print true?

A. String str2 = str1;

B. String str2 = new String (str1);

C. String str2 = sb1. toString ();

D. String str2 = "Duke";

**Answer:** B

133. Given the code from the Greeting.Java file:

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Which set of commands prints Hello Duke in the console?

A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** C

134. Given:

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What is the result?

A. e, ei, o

B. a, ei, o

C. a,eo, o

D. e, eo, o

**Answer:** A

135. Given:

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What is the result?

A. Option A

B. Option B

C. Option C

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D. Option D

**Answer:** B

136. Given the code fragment:

Which option can replace xxx to enable the code to print 135?

A. int e = 0; e < = 4; e++

B. int e = 0; e < 5; e + = 2

C. int e = 1; e < = 5; e + = 1

D. int e = 1; e < 5; e+ =2

**Answer:** B

137. You are developing a banking module. You have developed a class named ccMask that has a maskcc

method.

Given the code fragment:

You must ensure that the maskcc method returns a string that hides all digits of the credit card number

except the four last digits (and the hyphens that separate each group of four digits).

Which two code fragments should you use at line n1, independently, to achieve this requirement?

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A. Option A

B. Option B

C. Option C

D. Option D

**Answer:** B,C

138. Given the code fragment:

What is the result?

A. A NullPointerException is thrown at runtime.

B. [1, 2, 4]

C. [1, 2, 4, null ]

D. [1, 3, 4, null ]

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E. [1, 3, 4 ]

F. Compilation fails.

**Answer:** F

139. Given the following classes:

Which two options fail to compile when placed at line n1 of the main method?

A. employee.salary = 50\_000;

B. director.salary = 80\_000;

C. employee.budget = 200\_000;

D. manager.budget = 1\_000\_000;

E. manager.stockOption = 500;

F. director.stockOptions = 1\_000;

**Answer:** C,E

140. Which two class definitions fail to compile?

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A. abstract class A3 {private static int i;public void doStuff(){}public A3(){}}

B. final class A1 {public A1(){}}

C. public class A2 {private static int i;private A2(){}}

D. class A4 {protected static final int i;private void doStuff(){}}

E. final abstract class A5 {protected static int i;void doStuff(){}abstract void doIt();}

**Answer:** C,E

141. Given the following code:

What are the values of each element in intArr after this code has executed?

A. 15, 60, 45, 90, 75

B. 15, 90, 45, 90, 75

C. 15, 30, 75, 60, 90

D. 15, 30, 90, 60, 90

E. 15, 4, 45, 60, 90

**Answer:** C

142. Given the code fragment:

Which three code fragments are valid at line n1?

A. public static void insertToy() {/\* code goes here \*/}

B. public abstract Toy getToy() {return new Toy();}

C. public void printToy();

D. public int calculatePrice() {return price;}

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E. public abstract int computeDiscount();

**Answer:** C,D,E