

Module 1-JAVA 基础

一、选择题:

Question 1

Given:

35. String #name = "Jane Doe";

36. int \$age=24;

37. Double _height = 123.5;

38. double ~temp = 37.5;

Which two are true? (Choose two.)

A. Line 35 will not compile.

B. Line 36 will not compile.

C. Line 37 will not compile.

D. Line 38 will not compile.

Answer: AD

Question 2

Given:

11. public class Test {

12. public static void main(String [] args) {

13. int x =5;

14. boolean b1 = true;

15. boolean b2 = false;

16.

17. if((x==4) && !b2)

18. System.out.print("1 ");

19. System.out.print("2 ");

20. if ((b2 = true) && b1)

21. System.out.print("3");

22. }

23. }

What is the result?

A. 2

B. 3

C. 1 2

D. 2 3

E. 1 2 3

F. Compilation fails.

G. An exceptional is thrown at runtime.

Answer: D

Question 3

Given:

```
42. public class ClassA {  
43. public int getValue() {  
44. int value=0;  
45. boolean setting = true;  
46. String title="Hello";  
47. if (value || (setting && title == "Hello")) { return 1; }  
48. if (value == 1 & title.equals("Hello")) { return 2; }  
49. }  
50. }
```

And:

```
70. ClassA a = new ClassA();  
71. a.getValue();
```

What is the result?

- A. 1
- B. 2
- C. Compilation fails.
- D. The code runs with no output.
- E. An exception is thrown at runtime.

Answer: C

Question 4

Given:

```
11. public void testIfA() {  
12. if(testIfB("True")) {  
13. System.out.println("True");  
14. } else {  
15. System.out.println("Not true");  
16. }  
17. }  
18. public Boolean testIfB(String str) {  
19. return Boolean.valueOf(str);  
20. }
```

What is the result when method testIfA is invoked?

- A. True
- B. Not true
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error at line 12.
- E. Compilation fails because of an error at line 19.

Answer: A

Question 5

Given:

```
11. public static void main(String[] args) {  
12. Integer i = new Integer(1) + new Integer(2);  
13. switch(i) {  
14. case 3: System.out.println("three"); break;  
15. default: System.out.println("other"); break;  
16. }  
17. }
```

What is the result?

- A. three
- B. other
- C. An exception is thrown at runtime.
- D. Compilation fails because of an error on line 12.
- E. Compilation fails because of an error on line 13.
- F. Compilation fails because of an error on line 15.

Answer: A

Question 6

Given:

```
11. public static void main(String[] args) {  
12. String str = "null";  
13. if (str == null) {  
14. System.out.println("null");  
15. } else (str.length() == 0) {  
16. System.out.println("zero");  
17. } else {  
18. System.out.println("some");  
19. }  
20. }
```

What is the result?

- A. null
- B. zero
- C. some
- D. Compilation fails.
- E. An exception is thrown at runtime.

Answer: D

Question 7

Given:

```
10. int x=0;  
11. int y 10;  
12. do {  
13. y--;
```

14. ++x;
15. } while (x < 5);
16. System.out.print(x + "," + y);

What is the result?

- A. 5,6
- B. 5,5
- C. 6,5
- D. 6,6

Answer: B

Question 8

Given:

25. int x=12;
26. while (x < 10) {
27. x--;
28. }
29. System.out.print(x);

What is the result?

- A. 0
- B. 10
- C. 12
- D. Line 29 will never be reached.

Answer: C

Question 9

Given:

35. int x= 10;
36. do {
37. x--;
38. } while(x< 10);
How many times will line 37 be executed?

- A. ten times
- B. zero times
- C. one to me times
- D. more than ten times

Answer: D

Question 10

Given:

11. public static void main(String[] args) {
12. for (int i=0;i<= 10;i++){
13. if(i>6) break;
14. }

15. `System.out.println(i);`
16. `}`

What is the result?

- A. 6
- B. 7
- C. 10
- D. 11
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: E

Question 11

Given:

```
55. int []x= {1, 2,3,4, 5};  
56.int y[] =x;  
57. System.out.println(y[2]);
```

Which is true?

- A. Line 57 will print the value 2.
- B. Line 57 will print the value 3.
- C. Compilation will fail because of an error in line 55.
- D. Compilation will fail because of an error in line 56.

Answer: B

Question 12

Which two code fragments correctly create and initialize a static array of int elements? (Choose two.)

- A. `static final int[] a = { 100,200 };`
- B. `static final int[] a;`
`static { a=new int[2]; a[0]=100; a[1]=200; }`
- C. `static final int[] a = new int[2] { 100,200 };`
- D. `static final int[] a;`
`static void init() { a = new int[3]; a[0]=100; a[1]=200; }`

Answer: AB

Question 13

Given:

```
11. public static void main(String[] args) {  
12. Object obj =new int[] { 1,2,3 };
```

```
13. int[] someArray = (int[])obj;  
14. for (int i: someArray) System.out.print(i + " ")  
15. }
```

‘What is the result?

- A. 1 2 3
- B. Compilation fails because of an error in line 12.
- C. Compilation fails because of an error in line 13.
- D. Compilation fails because of an error in line 14.
- E. A ClassCastException is thrown at runtime.

Answer: A

Question 14

Given:

```
11. String[] elements = { "for", "tea", "too" };  
12. String first = (elements.length > 0)? elements[0] : null;
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. The variable first is set to null.
- D. The variable first is set to elements[0].

Answer: D

Question 15

Given:

```
10. public class Bar {  
11. static void foo(int...x) {  
12. // insert code here  
13. }  
14. }
```

Which two code fragments, inserted independently at line 12, will allow the class to compile? (Choose two.)

- A. foreach(x) System.out.println(z);
- B. for(int z : x) System.out.println(z);
- C. while(x.hasNext()) System.out.println(x.next());
- D. for(int i=0; i< x.length; i++) System.out.println(x[i]);

Answer: BD

Question 16

A programmer needs to create a logging method that can accept an arbitrary number of arguments. For example, it may be called in these ways:

```
logIt("log message 1 ");  
logIt("log message2", "log message3");
```

```
logIt("log message4", "log message5", "log message6");
```

Which declaration satisfies this requirement?

- A. `public void logIt(String * msgs)`
- B. `public void logIt(String [] msgs)`
- C. `public void logIt(String... msgs)`
- D. `public void logIt(String msg1, String msg2, String msg3)`

Answer: C

Question 17

Click the Exhibit button.

- 1. `public class A {`
- 2. `public String doit(int x, int y) {`
- 3. `return "a";`
- 4. `}`
- 5.
- 6. `public String doit(int... vals) {`
- 7. `return "b";`
- 8. `}`
- 9. `}`

Given:

- 25. `A a=new A();`
- 26. `System.out.println(a.doit(4, 5));`

What is the result?

- A. Line 26 prints "a" to System.out.
- B. Line 26 prints "b" to System.out.
- C. An exception is thrown at line 26 at runtime.
- D. Compilation of class A will fail due to an error in line 6.

Answer: A

Question 18

Given a file GrizzlyBear.java:

- 1. `package animals.mammals;`
- 2.
- 3. `public class GrizzlyBear extends Bear {`
- 4. `void hunt() {`
- 5. `Salmon s = findSalmon();`
- 6. `s.consume();`
- 7. `}`
- 8. `}`

and another file, Salmon.java:

- 1. `package animals.fish;`
- 2.
- 3. `public class Salmon extends Fish {`

```
4. void consume() { /* do stuff */ }
5. }
```

Assume both classes are defined in the correct directories for the packages, and that the Mammal class correctly defines the findSalmon() method. Which two changes allow this code to compile correctly? (Choose two.)

- A. add public to the start of line 4 in Salmon.java
- B. add public to the start of line 4 in GrizzlyBear.java
- C. add import animals.mammals.*; at line 2 in Salmon.java
- D. add import animals.fish.*; at line 2 in GrizzlyBear.java
- E. add import animals.fish.Salmon.*; at line 2 in GrizzlyBear.java
- F. add import animals.mammals.GrizzlyBear.*; at line 2 in Salmon.java

Answer: AD

Question 19

Given:

```
10. package com.sun.scjp;
11. public class Geodetics {
12. public static final double DIAMETER = 12756.32; // kilometers
13. }
```

Which two correctly access the DIAMETER member of the Geodetics class? (Choose two.)

- A. import com.sun.scjp.Geodetics;
public class TerraCarta {
public double halfway()
{ return Geodetics.DIAMETER/2.0; } }
- B. import static com.sun.scjp.Geodetics;
public class TerraCarta {
public double halfway() { return DIAMETER/2.0; } }
- C. import static com.sun.scjp.Geodetics.*;
public class TerraCarta {
public double halfway() { return DIAMETER/2.0; } }
- D. package com.sun.scjp;
public class TerraCarta {
public double halfway() { return DIAMETER/2.0; } }

Answer: AC

Question 20

Given classes defined in two different files:

```
1. package util;
2. public class BitUtils {
3. private static void process(byte[] b) { }
4. }
1. package app;
```



```

2. public class SomeApp {
3. public static void main(String[] args) {
4. byte[] bytes = new byte[256];
5. // insert code here
6. }
7. }

```

What is required at line 5 in class SomeApp to use the process method of BitUtils?

- A. process(bytes);
- B. BitUtils.process(bytes);
- C. app.BitUtils.process(bytes);
- D. util.BitUtils.process(bytes);
- E. import util.BitUtils. *; process(bytes);
- F. SomeApp cannot use the process method in BitUtils.

Answer: F

Question 21

Given a class Repetition:

```

1. package utils;
2.
3. public class Repetition {
4. public static String twice(String s) { return s + s; }
5. }

```

and given another class Demo:

```

1. // insert code here
2.
3. public class Demo {
4. public static void main(String[] args) {
5. System.out.println(twice("pizza"));
6. }
7. }

```

Which code should be inserted at line 1 of Demo.java to compile and run Demo to print “pizzapizza”?

- A. import utils.*;
- B. static import utils.*;
- C. import utils.Repetition.*;
- D. static import utils.Repetition. *;
- E. import utils.Repetition.twice();
- F. import static utils.Repetition.twice;
- G. static import utils.Repetition.twice;

Answer: F

Question 22

Given:

```

1. package test;

```

```
2.  
3. class Target {  
4. public String name = "hello";  
5. }
```

What can directly access and change the value of the variable name?

- A. any class
- B. only the Target class
- C. any class in the test package
- D. any class that extends Target

Answer: C

Question 23

Given:

```
11. rbo = new ReallyBigObject();  
12. // more code here  
13. rbo = null;  
14. /* insert code here */
```

Which statement should be placed at line 14 to suggest that the virtual machine expend effort toward recycling the memory used by the object rbo?

- A. System.gc();
- B. Runtime.gc();
- C. System.freeMemory();
- D. Runtime.getRuntime().growHeap();
- E. Runtime.getRuntime().freeMemory();

Answer: A

Question 24

Given:

```
11. class Snoochy {  
12. Boochybooch;  
13. public Snoochy() { booch = new Boochy(this); }  
14. }  
15.  
16. class Boochy {  
17. Snoochy snooch;  
18. public Boochy(Snoochy s) { snooch = s; }  
19. }
```

And the statements:

```
21. public static void main(String[] args) {  
22. Snoochy snoog = new Snoochy();  
23. snoog = null;  
24. // more code here
```

25. }

Which statement is true about the objects referenced by snoog, snooch, and booch immediately after line 23 executes?

- A. None of these objects are eligible for garbage collection.
- B. Only the object referenced by booch is eligible for garbage collection.
- C. Only the object referenced by snoog is eligible for garbage collection.
- D. Only the object referenced by snooch is eligible for garbage collection.
- E. The objects referenced by snooch and booch are eligible for garbage collection.

Answer: E

Question 25

Given:

```
1. public class GC {  
2.     private Object o;  
3.     private void doSomethingElse(Object obj) { o = obj; }  
4.     public void doSomething() {  
5.         Object o = new Object();  
6.         doSomethingElse(o);  
7.         o = new Object();  
8.         doSomethingElse(null);  
9.     }  
10. }  
11. }
```

When the doSomething method is called, after which line does the Object created in line 5 become available for garbage collection?

- A. Line 5
- B. Line 6
- C. Line 7
- D. Line 8
- E. Line 9
- F. Line 10

Answer: D

Question 26

Given:

```
11. public void genNumbers() {  
12.     ArrayList numbers = new ArrayList();  
13.     for (int i=0; i<10; i++) {  
14.         int value = i * ((int) Math.random());  
15.         Integer intObj = new Integer(value);
```

```
16. numbers.add(intObj);
17. }
18. System.out.println(numbers);
19. }
```

Which line of code marks the earliest point that an object referenced by intObj becomes a candidate for garbage collection?

- A. Line 16
- B. Line 17
- C. Line 18
- D. Line 19
- E. The object is NOT a candidate for garbage collection.

Answer: D

Question 27

Which two are true? (Choose two.)

- A. A finalizer may NOT be invoked explicitly.
- B. The finalize method declared in class Object takes no action.
- C. super.finalize() is called implicitly by any overriding finalize method.
- D. The finalize method for a given object will be called no more than once by the garbage collector.
- E. The order in which finalize will be called on two objects is based on the order in which the two objects became finalizable.

Answer: BD

Question 28

Given:

```
15. public class Yippee {
16.     public static void main(String [] args) {
17.         for(int x = 1; x < args.length; x++) {
18.             System.out.print(args[x] + " ");
19.         }
20.     }
21. }
```

and two separate command line invocations:

```
java Yippee
java Yippee 1234
```

What is the result?

- A. No output is produced.
123
- B. No output is produced.
234
- C. No output is produced.
1234
- D. An exception is thrown at runtime.

123

E. An exception is thrown at runtime.

234

F. An exception is thrown at runtime.

1234

Answer: B

Question 29

Given a correctly compiled class whose source code is:

```
1. package com.sun.sjcp;  
2. public class Commander {  
3. public static void main(String[] args) {  
4. // more code here  
5. }  
6. }
```

Assume that the class file is located in `/foo/com/sun/sjcp/`, the current directory is `/foo/`, and that the classpath contains `“.”` (current directory).

Which command line correctly runs `Commander`?

- A. `java Commander`
- B. `java com. sim. sjcp.Commander`
- C. `java com/sun/sjcp/Commander`
- D. `java -cp com.sun.sjcp Commander`
- E. `java -cp com/sun/sjcp Commander`

Answer: B

Question 30

Given:

```
11. public class Commander {  
12. public static void main(String[] args) {  
13. String myProp = /* insert code here */  
14. System.out.println(myProp);  
15. }  
16. }
```

and the command line:

`java -Dprop.custom=gobstopper Commander`

Which two, placed on line 13, will produce the output `gobstopper`?

(Choose two.)

- A. `System.load("prop.custom");`
- B. `System.getenv("prop.custom");`
- C. `System.property("prop.custom");`
- D. `System.getProperty("prop.custom");`
- E. `System.getProperties().getProperty("prop.custom");`

Answer: DE

Question 31

A class `games.cards.Poker` is correctly defined in the jar file `Poker.jar`.

A user wants to execute the main method of `Poker` on a UNIX system

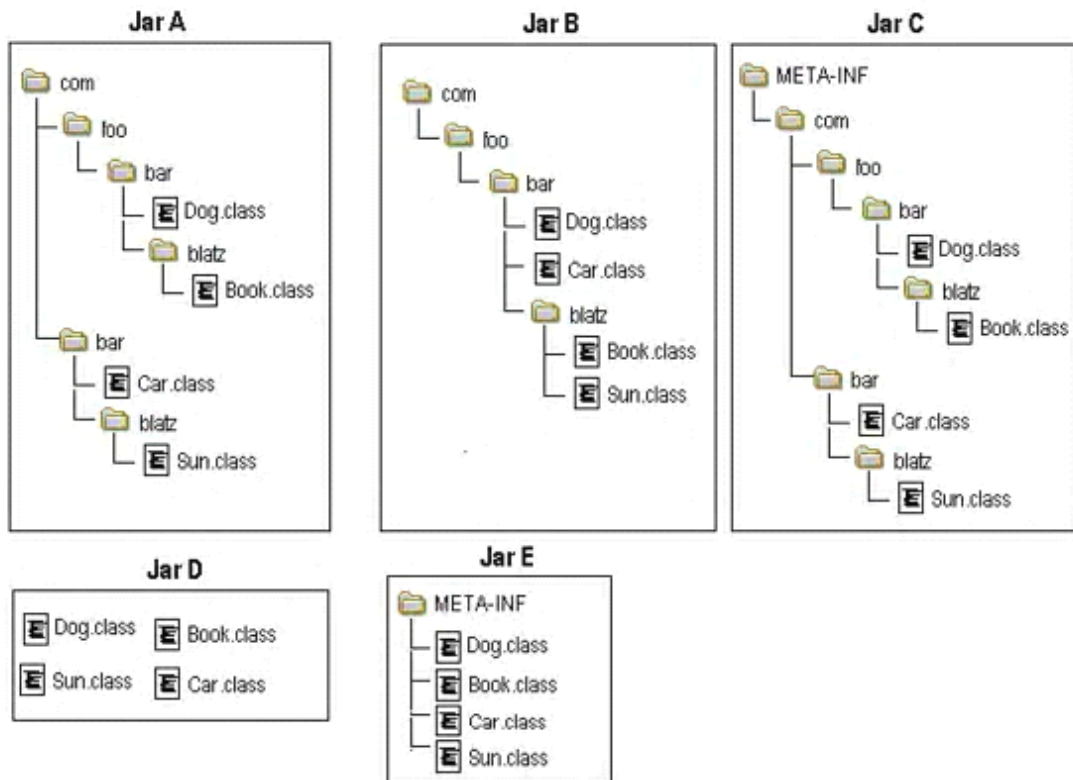
using the command: `java games.cards.Poker`

What allows the user to do this?

- A. put `Poker.jar` in directory `/stuff/java`, and set the `CLASSPATH` to include `/stuff/java`
- B. put `Poker.jar` in directory `/stuff/java`, and set the `CLASSPATH` to include `/stuff/java/*.jar`
- C. Put `Poker.jar` in directory `/stuff/java`, and set the `CLASSPATH` to include `/stuff/java/Poker.jar`
- D. put `Poker.jar` in directory `/stuff/java/games/cards`, and set the `CLASSPATH` to include `/stuff/java`
- E. put `Poker.jar` in directory `/stuff/java/games/cards`, and set the `CLASSPATH` to include `/stuff/java/*.jar`
- F. put `Poker.jar` in directory `/stuff/java/games/cards`, and set the `CLASSPATH` to include `/stuff/java/Poker.jar`

Answer: C

Question 32



Given the fully-qualified class names:

`com.foo.bar.Dog`

`com.foo.bar.blatz.Book`

com.bar.Car

com.bar.blatz.Sun

Which graph represents the correct directory structure for a JAR file from which those classes can be used by the compiler and JVM?

- A. Jar A
- B. Jar B
- C. Jar C
- D. Jar D
- E. Jar E

Answer: A

Question 33

A developer is creating a class Book that needs to access class Paper. The Paper class is deployed in a JAR named myLib.jar. Which three, taken independently, will allow the developer to use the Paper class while compiling the Book class? (Choose three.)

- A. The JAR file is located at \$JAVA_HOME/jre/classes/myLib.jar.
- B. The JAR file is located at \$JAVA_HOME/jre/lib/ext/myLib.jar.
- C. The JAR file is located at /foo/myLib.jar and a classpath environment variable is set that includes /foo/myLib.jar/Paper.class.
- D. The JAR file is located at /foo/myLib.jar and a classpath environment variable is set that includes /foo/myLib.jar.
- E. The JAR file is located at /foo/myLib.jar and the Book class is compiled using `javac -cp /foo/myLib.jar/Paper Book.java`.
- F. The JAR file is located at /foo/myLib.jar and the Book class is compiled using `javac -d /foo/myLib.jar Book.java`.
- G. The JAR file is located at /foo/myLib.jar and the Book class is compiled using `javac -classpath /foo/myLib.jar Book.java`.

Answer: BDG

Question 34

Given:

1. `package com.company.application;`
- 2.
3. `public class MainClass {`
4. `public static void main(String[] args) { }`
5. `}`

And MainClass exists in the /apps/com/company/application directory. Assume the CLASSPATH environment variable is set to "." (current directory). Which two java commands entered at the command line will run MainClass? (Choose two.)

- A. `java MainClass` if run from the /apps directory

- B. `java com.company.application.MainClass` if run from the `/apps` directory
- C. `java -classpath /apps com.company.application.MainClass` if run from any directory
- D. `java -classpath . MainClass` if run from the `/apps/com/company/application` directory
- E. `java -classpath /apps/com/company/application:. MainClass` if run from the `/apps` directory
- F. `java com.company.application.MainClass` if run from the `/apps/com/company/application` directory

Answer: BC

Question 35

A UNIX user named Bob wants to replace his chess program with a new one, but he is not sure where the old one is installed. Bob is currently able to run a Java chess program starting from his home directory `/home/bob` using the command:

```
java -classpath /test:/home/bob/downloads/* .jar games.Chess
```

Bob's CLASSPATH is set (at login time) to:

```
/usr/lib:/home/bob/classes:/opt/java/lib:/opt/java/lib/* .jar
```

What is a possible location for the `Chess.class` file?

- A. `/test/Chess.class`
- B. `/home/bob/Chess.class`
- C. `/test/games/Chess.class`
- D. `/usr/lib/games/Chess.class`
- E. `/home/bob/games/Chess.class`
- F. inside jarfile `/opt/java/lib/Games.jar` (with a correct manifest)
- G. inside jarfile `/home/bob/downloads/Games.jar` (with a correct manifest)

Answer: C

Question 36

Given:

```
11. public class Counter {
12. public static void main(String[] args) {
13. int numArgs = /* insert code here */;
14. }
15. }
```

and the command line:

```
java Counter one fred 42
```

Which code, inserted at line 13, captures the number of arguments passed into the program?

- A. `args.count`

- B. args.length
- C. args.count()
- D. args.length()
- E. args.getLength()

Answer: B

Question 37

Given:

```
12. public class Yippee2 {  
13.  
14. static public void main(String [] yahoo) {  
15. for(int x= 1; x<yahoo.length; x++) {  
16. System.out.print(yahoo[x] + " ");  
17. }  
18. }  
19. }
```

and the command line invocation:

```
java Yippee2 a b c
```

What is the result?

- A. a b
- B. b c
- C. a b c
- D. Compilation fails.
- E. An exception is thrown at runtime.

Answer: B

Question 38

Click the Exhibit button.

```
1. public class Test {  
2. int x= 12;  
3. public void method(int x) {  
4. x+=x;  
5. System.out.println(x);  
6. }  
7. }
```

Given:

```
34. Test t = new Test();
```

```
35. t.method(5);
```

What is the output from line 5 of the Test class?

- A. 5
- B. 10
- C. 12
- D. 17

E. 24

Answer: B

Question 39

Given the command line java Pass2 and:

```
15. public class Pass2 {  
16. public void main(String [] args) {  
17. int x=6;  
18. Pass2 p = new Pass2();  
19. p.doStuff(x);  
20. System.out.print("main x = "+ x);  
21. }  
22.  
23. void doStuff(int x) {  
24. System.out.print(" doStuffx =" + x++);  
25. }  
26. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.
- C. doStuffx = 6 main x = 6
- D. doStuffx = 6 main x = 7
- E. doStuffx = 7 main x = 6
- F. doStuffx = 7 main x = 7

Answer: B

Question 40

12. Given:

```
13. public class Pass {  
14. public static void main(String [] args) {  
15. int x=5;  
16. Pass p = new Pass();  
17. p.doStuff(x);  
18. System.out.print("main x = "+ x);  
19. }  
20.  
21. void doStuff(int x) {  
22. System.out.print(" doStuffx =" + x++);  
23. }  
24. }
```

What is the result?

- A. Compilation fails.
- B. An exception is thrown at runtime.

- C. doStuffx = 6 main x = 6
- D. doStuffx = 5 main x = 5
- E. doStuffx = 5 main x = 6
- F. doStuffx = 6 main x = 5

Answer: D

Question 41

```
22. public void go(){
23.     String o = "";
24.     z :
25.     for(int x=0; x<3; x++){
26.         for(int y=0; y<2; y++){
27.             if(x == 1) break;
28.             if(x==2 && y==1) break z;
29.             o = o + x + y;
30.         }
31.     }
32.     System.out.println(o);
33. }
```

What is the result when the go() method is invoked?

- A. 00
- B. 0001
- C. 000120
- D. 00012021
- E. Compilation fails.
- F. An exception is thrown at runtime.

Answer: C

二、拖拽题:

Question 1:

Place the correct Code in the Code Sample to achieve the expected results.

Expected results:

Output: 1 2 4 8 16 32

Code Sample

```
int [] y = { 1, 2, 4, 8, 16, 32 };  
System.out.print("Output: ");  


Place here

  
System.out.print(x);  
System.out.print(" ");  
}
```

Code

for(int x : y) {

for(int x=y[]) {

foreach (y as x) {

foreach (int x : y) {

for(int x=1; x=y[]; x++) {

Answer:

for(int x : y){

Question 2:

Place code fragments into position so the output is: **The quantity is 420**

```
Place here update(int quantity, int adjust) {  
Place here  
}  
  
public void callUpdate() {  
    int quant = 100;  
Place here  
    System.out.println("The quantity is " + quant);  
}
```

Code Fragments

public int	quantity = quantity + adjust;	update(quant, 320);
public void	quant = update(quant, 320);	quantity = quantity + adjust; return quantity;

Answer:

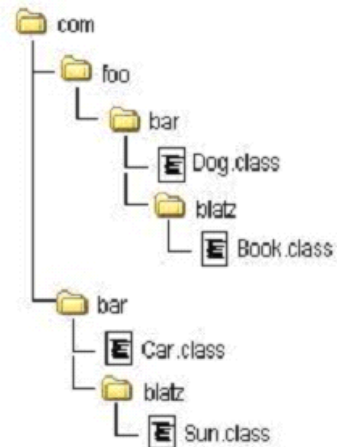
```
public int update(int quantity, int adjust){  
    quantity = quantity + adjust;  
    return quantity;  
}  
  
public void update(){  
    int quant = 100;  
    quant = update(quant, 320);  
    System.out.println("The quantity is " + quant);  
}
```

Question 3:

The image at right represents a complete package structure for a set of classes: "com" is the beginning of the fully-qualified package name for all classes.

Given this package structure, insert the code needed to make the Car class compile and run successfully.

All three placeholders must be filled. If fewer than three statements are needed, use the "// blank" option.



place here

Place here

Place here

```
public class Car {
    Book book;
    Dog dog;
}
```

import com.foo.bar.blatz.*;

import com.bar.*;

package com.bar;

import com.foo.*;

import com.foo.bar.*;

package com.foo.bar.blatz;

import com.*;

package com;

// blank

import com.foo.bar.Book;

Done

Answer:

```
package com.bar;
import com.foo.bar.blatz.*;
import com.foo.bar.*;
public class Car{
    Book book;
    Dog dog;
}
```

Question 4:

Place the code elements in order so that the resulting Java source file will compile correctly, resulting in a class called com.sun.cert.AddressBook.

Source File	Code Element
1st	package com.sun.cert;
2nd	package com.sun.cert.*;
3rd	import java.util.*;
	import java.*;
	public class AddressBook{
	public static class AddressBook {

```
ArrayList entries;  
}
```

Answer:

```
package com.sun.cert;  
import java.util.*;  
public class AddressBook{  
    ArrayList entries;  
}
```

Question 5:

Given:

```
public class Doubler {  
    public static int doubleMe( Holder h) {  
        return h.getAmount() * 2;  
    }  
}
```

and:

```
public class Holder {  
    int amount = 10;  
    public void doubleAmount(){ amount = Doubler.doubleMe( this );}  
    public int getAmount(){ return amount;}  
    //more code here  
}
```

Place the code fragments in position to reduce the coupling between Doubler and Holder.

```
public class Doubler {  
    public static int doubleMe( Place here h) {  
        return Place here * 2;  
    }  
}
```

```
public class Holder {  
    int amount = 10;  
    public void doubleAmount(){ amount = Doubler.doubleMe( Place here );}  
    public int getAmount(){ return amount;}  
    //more code here  
}
```

Code Fragments

void	Holder	int	Doubler
h.getAmount()	h	this	amount

Done

Answer:

```
public class Doubler{  
    public static int doubleMe(int h){  
        return h*2;  
    }  
}
```

```
public class Holder{  
    int amount = 10;  
    public void doubleAmount(){amount = Doubler.doubleMe(amount);}  
    public int getAmount(){return amount;}  
}
```