Java: Packages

Quiz

HCL

```
R.java
package a;
 public class R { }
P.java
 package a.b;
   public class P { }
D.java
package a.b.c;
     public class D {}
M.java
 // insert code here
public class M{  R r;  P p;  D; }
```

Which of options will make will make M compile?

A. `package a; import a.*;`

B. `package a; import a.b.*; import a.b.c;`

C. `package a.b.c; import a.*; import a.b.*;`

D. `import a; import a.b;import a.b.c;`

HCL

```
R.java
package a;
 public class R { }
P.java
 package a.b;
   public class P { }
D.java
package a.b.c;
     public class D {}
M.java
 // insert code here
public class M{  R r;  P p;  D; }
```

Which of options will make will make M compile?

A. `package a; import a.*;`

B. `package a; import a.b.*; import a.b.c;`

C. `package a.b.c; import a.*; import a.b.*;`

D. `import a; import a.b;import a.b.c;`

HCL

Question 2

__Test1.java__

```
package a;
package b;
public class Test1 {
public static void main(String[] args) {}
public class Test2{
public static void main(String[] args) {}
}
```

What is/are the problems with the code?

    A.   There are two package statements. There can be only 1.

    B.   There are two main methods. There can be only 1.

    C.   There are two public classes. There can be only 1.

    D.   The file must be named as Test2.java.

HCL

Question 2

Test1.java

```
package a;
package b;
public class Test1 {
public static void main(String[] args) {}
public class Test2{
public static void main(String[] args) {}
}
```

What is/are the problems with the code?

A. There are two package statements. There can be only 1.

B. There are two main methods. There can be only 1.

C. There are two public classes. There can be only 1.

D. The file must be named as Test2.java.

Question 3

```
Test.java
package a;
class Test1 {
public static void main(String[] args) {
   System.out.println("Test1");    }
}
class Test2{
public static void main(String[] args) {
System.out.println("Test2");    }
}
```

Which command will print Test2 on the console?

    A. java Test

    B. java a.Test

    C. java a.Test1

    D. java a.Test2

HCL

Question 3

Test.java

```
package a;
class Test1 {
public static void main(String[] args) {
   System.out.println("Test1");    }
}
class Test2{
public static void main(String[] args) {
System.out.println("Test2");    }
}
```

Which command will print Test2 on the console?

A. java Test

B. java a.Test

C. java a.Test1

D. java a.Test2

```
A.java
package a;
public class A{}
class B{}
```
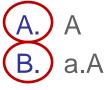
Which of the following are the valid ways of accessing class A from class B?

A. A

B. a.A

C. A.a

D. a.*

Question 4

```
A.java
package a;
public class A{}
class B{}
```

Which of the following are the valid ways of accessing class A from class B?

A. A

B. a.A

C. A.a

D. a.*

HCL

Question 5

Which of the following are package naming conventions?

A. Must begin with lower case

B. Must not contain numbers

C. Must be all in lower case

D. Must be a single letter

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HCL

Question 6

Which packages are imported automatically?

A. `javax.lang`

B. `java.lang`

C. `java.lang.System`

D. `java.io`

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A. `javax.lang`

B. `java.lang`

C. `java.lang.System`

D. `java.io`

HCL

Question 7

The `import` statement in Java

A. includes the source file of the specified classes with the current file before compiling

B. includes the class files of the specified classes with the current class file before after compiling

C. loads the class files on demand

D. allows the current code to access classes which are declared in other packages without using their full name.

HCL

Question 7

The `import` statement in Java

A. includes the source file of the specified classes with the current file before compiling

B. includes the class files of the specified classes with the current class file before after compiling

C. loads the class files on demand

D. allows the current code to access classes which are declared in other packages without using their full name.

HCL

Question 8

Which class(es) is(are) NOT available to java program without explicit import?

- **A. Scanner**

- **B. System**

- **C. String**

- **D. Grade**

Question 8

Which class(es) is(are) NOT available to java program without explicit import?

A. **Scanner**

B. **System**

C. **String**

D. **Grade**

Question 9

What can be done so that classes in multiple packages can be distributed without issues?

A.   Create ZIP file

B.   Create JAR file

C.   Set the classpath to the network location of class files

D.   Set the path to the network location of class files

Question 9

What can be done so that classes in multiple packages can be distributed without issues?

A. Create ZIP file

B. Create JAR file

C. Set the classpath to the network location of class files

D. Set the path to the network location of class files

Select the code snippets which is/are NOT correct?

```
A. package Student;

   import java.lang. *;    //Note the space is intentional

   public class Grade{}

B. import java.lang.*;

    package student;

    public class Grade{}

C. package student;

   import java.lang.*;

   public class Grade{}

   public class  Teacher{}

D. import java.*;

   import java.lang.*;

   public class Grade{}
```

Select the code snippets which is/are NOT correct?

```
A. package Student;
   import java.lang. *;    //Note the space is intentional
   public class Grade{}
B. import java.lang.*;
    package student;
    public class Grade{}
C. package student;
   import java.lang.*;
   public class Grade{}
   public class  Teacher{}
D. import java.*;
   import java.lang.*;
   public class Grade{}
```

Question 11

How can you change class-path through java code?

A. Using "set classpath" command

B. Using `System.setProperty()`

C. Using `System.setClasspath()`

D. This cannot be done

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D. This cannot be done

HCL

```
class Test{

public static void main(String[] s){

java.util.Scanner sc = new java.util.Scanner(in);

int i = sc.nextInt();

 }}
```

What needs to be inserted in the code snippet to get the input from console?

A. Change **in** to **System.in**

B. Change **Scanner** to **System**

C. Add **import System.* ;**

D. Add **import static java.lang.System.*;**

HCL

Question 12

```
class Test{

public static void main(String[] s){

java.util.Scanner sc = new java.util.Scanner(in);

int i = sc.nextInt();

 }}
```

What needs to be inserted in the code snippet to get the input from console?

A. Change **in** to **System.in**

B. Change **Scanner** to **System**

C. Add **import System.* ;**

D. Add **import static java.lang.System.*;**

Question 13

Scanner class is defined in which package?

A. java.lang

B. java.io

C. java.util

D. java.net

Question 13

`Scanner` class is defined in which package?

A. `java.lang`

B. `java.io`

C. `java.util`

D. `java.net`

HCL

```
package a;
class A{
int i;                    A.java
A(){}
}
package b;                 B.java
public class B{}
```

For class **B** to access **i** of class **A,** which of the following is/are together necessary?

A. **class A** must be declared **public**

B. **Constructor A(){}** must be declared **public**

C. **int i** must be declared **public**

D. None of the above

HCL

```
package a;
class A{
int i;                    ⟶  A.java
A(){}
}
package b;                 ⟶  B.java
public class B{}
```

For class **B** to access **i** of class **A,** which of the following is/are together necessary?

A. **class A** must be declared **public**

B. **Constructor A(){}** must be declared **public**

C. **int i** must be declared **public**

D. None of the above

```
package a.b.c;

class A{}
```

On compiling using the command `javac -d . A.java`, `A.class` will be placed

A.   inside three folders namely 'a', 'b' and 'c'

B.   inside 'c' folder which in turn will be inside 'b' folder and that in turn will be inside a folder

C.   inside 'a' folder which in turn will be inside 'b' folder and that in turn will be inside 'c' folder

D.   Inside folder named 'a.b.c'

Question 15

```
package a.b.c;

class A{}
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On compiling using the command `javac -d . A.java`, `A.class` will be placed

A.   inside three folders namely 'a', 'b' and 'c'

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C.   inside 'a' folder which in turn will be inside 'b' folder and that in turn will be inside 'c' folder

D.   Inside folder named 'a.b.c'

HCL